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(R) MOTOR VEHICLE DIMENSIONS —SAE J1100 JUN93

SAE Recommended Practice

Report of the Human Factors Engineering Committee approved September 1973, and revised June 1984. Completely revised by the Human Accommodation and Design Devices Standards Committee June 1993.

TABLE OF CONTENTS

1. Scope—This SAE Recommended Practice defines a uniform set of interior and exterior dimensions for passenger cars, multipurpose passenger vehicles, and trucks.

2. References

2.1 Applicable Documents—The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J182—Motor Vehicle Fiducial Marks

SAE J826—Devices for Use in Defining and Measuring Vehicle Accommodation

SAE J941—Motor Vehicle Driver's Eye Range

SAE J1052—Motor Vehicle Driver and Passenger Head Position

SAE E-7

2.2 Definition of Terms

2.2.1 MOTOR VEHICLES—Classifications are made both according t use definitions and to interior seating dimensions.

2.2.1.1 Passenger Car—Vehicles with motive power, except mul passenger vehicles, motorcycles, or trailers, designed for carrying 10 p less.

2.2.1.1.1 Station Wagon—Passenger cars with an extended upper tc the cargo and/or passenger capacity.

2.2.1.1.2 Hatchback—Passenger cars with the rear access door enco the back light.

2.2.1.2 Multipurpose, Passenger Vehicle (MPV)—Vehicles wit power, except trailers, designed to carry 10 persons or less, w constructed either on a truck chassis or with special features for o off-road operation.

2.2.1.3 Truck—Vehicles with motive power, except a trailer, primarily for the transportation of property or special-purpose equipmer

2.2.1.3.1 Light Truck—Classification of self-propelled vehicles v designed primarily to transport property or special-purpose equipment, a maximum gross vehicle weight rating (GVWR) of 4536 kg (10 000 lb

GVWR is the value specified by the vehicle manufacturer as the load of a single vehicle.

2.2.1.3.2 Heavy Truck—Classification of self-propelled vehicles designed primarily to transport property or special purpose equipment, a gross vehicle weight rating over 4536 kg (10 000 lb).

2.2.1.4 Two distinct vehicle groupings are derived according seating arrangement dimensions.

2.2.1.4.1 Class A Vehicles

(H30)—Vertical SgRP to Heel Point—(127 to 405 mm)

(H59)—Vertical H-Point Rise—(0.0 to 50 mm)

(L23)—Normal Driving and Riding Seat Track Travel—greater mm)

(W9)—Steering Wheel Diameter—(less than 450 mm)

(L40)—Torso Angle - Front—(5 to 40 degrees)

2.2.1.4.2 Class B Vehicles

(H30)—Vertical SgRP to Heel Point—(405 to 530 mm)
(H59)—Vertical H-Point Rise—(0 mm)
(L23)—Normal Driving and Riding Seat Track Travel—(greater than 100 mm)
'9)—Steering Wheel Diameter—(450 to 560 mm)
.40)—Torso Angle—(11 to 18 degrees)

2.2.2 VEHICLE WEIGHTS—Specific vehicle weights with the addition of specified loads are defined as follows. These vehicle weights are established to enable uniform static comparisons of dimensions affected by the ground plane and vehicle pitch (attitude).

2.2.2.1 Curb Weight—The weight of a motor vehicle with standard equipment only: maximum capacity of engine fuel, oil, and coolant. For heavy trucks, the weight does not include engine fuel.

2.2.2.2 Design Load Weight—Passenger Car-Curb weight, plus passengers and luggage or cargo load as specified by manufacturer, each passenger weighing 68 kg (150 lb).

2.2.2.3 Design Load Weight/Height-Trucks and MPV's—The height of a motor vehicle with the front and rear suspension at the manufacturer's design-loaded condition and the front and rear loaded to then rated capacity.

2.2.3 COORDINATE DIMENSION—All points of interests are described as coordinates dimensioned from the intersection of the zero planes in the three-dimensional reference system. X, Y, Z coordinates are dimensioned to their respective planes. (See Figure 1.)

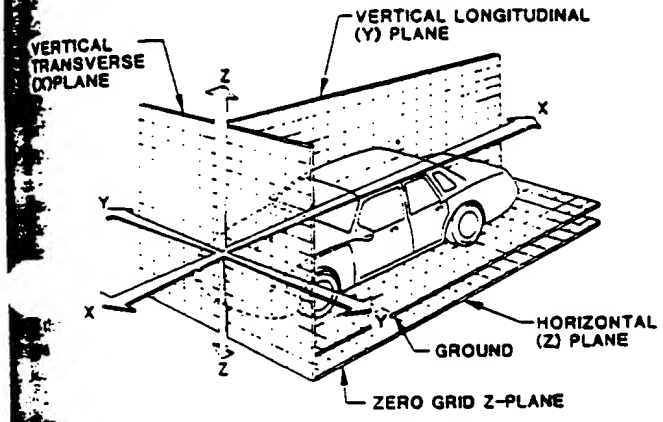


FIGURE 1—THREE-DIMENSIONAL REFERENCE SYSTEM

2.2.4 VEHICLE FIDUCIAL MARKS—See SAE J182. These are holes, surfaces, marks, or indentations on the vehicle body as described by the manufacturer. Their location is specified in the three-dimensional reference system by X, Y, Z coordinates and to ground with the vehicle at a specified vehicle weight.

2.2.5 EYELLIPSE—See SAE J941.

2.2.6 TWO- AND THREE-DIMENSIONAL DEVICES—See SAE J826.

2.2.7 HEAD POSITION CONTOUR—See SAE J1052.

2.2.8 HEAD CONTOUR LOCATOR LINE-FIXED SEAT—See SAE J1052.

2.2.9 EYELLIPSE AND HEAD CONTOUR LOCATOR LINE—See SAE J941.

2.2.10 T-POINT—Any point on the Head Contour Locator Line-Fixed Seat (see 2.2.8).

2.2.11 H-POINT—The H-point is the pivot center of the torso and thigh on the two- or three-dimensional devices used in defining and measuring vehicle seating accommodation (see SAE J826).

2.2.11.1 Design H-Point—The Design H-point is located on a drawing by the H-point on the two-dimensional drafting template placed in any designated seating position. If the designated seating position can be adjusted, the path of the Design H-point through the full seat adjustment establishes the Design H-point travel path, and can be dimensionally described by coordinates relative to the three-dimensional reference system. (See Section 13.)

2.2.11.2 Seating Reference Point (SgRP)—The manufacturer's design reference point is a unique Design H-point which:

a. Establishes the rearmost normal design driving or riding position of each designated seating position which includes consideration of all modes of adjustment, horizontal, vertical, and tilt, in a vehicle,
b. Has X, Y, Z coordinates established relative to the designed vehicle structure,
c. Simulates the position of the pivot center of the human torso and thigh, and
d. Is the reference point employed to position the two-dimensional drafting template with the 95th percentile leg described in SAE J826.

2.2.11.3 Actual H-Point—The actual H-point is located in an actual vehicle by the H-point on the three-dimensional H-point machine with the 95th percentile leg installed in any designated seating position per instruction in SAE J826 and can be dimensionally located by coordinates relative to the three-dimensional reference system.

2.2.12 DESIGNATED SEATING POSITION—Any plan view location intended by the manufacturer to provide seating accommodation while the vehicle is in motion, for a person at least as large as a 5th percentile adult female, except auxiliary seating accommodations such as temporary or folding jump seats.

2.2.13 D-POINT—D-Point is the lowest point on the buttocks contour of the seated two- or three-dimensional device in the installed position. (See Figure 2.)

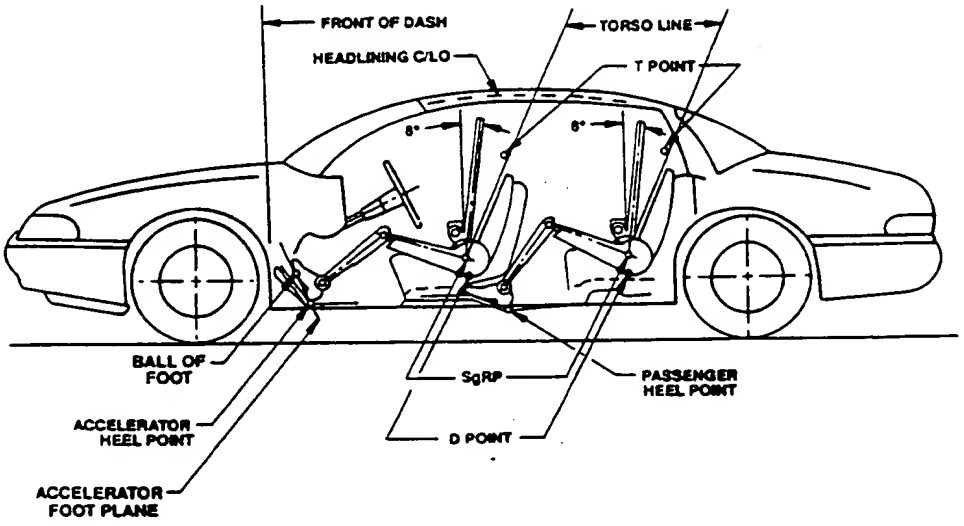
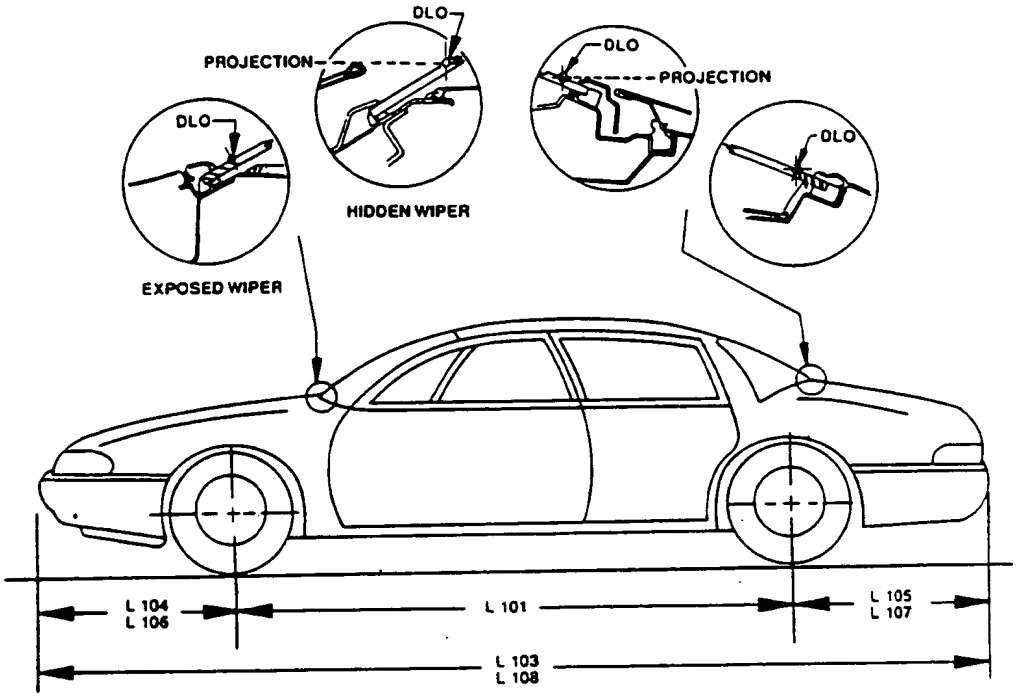


FIGURE 2—REFERENCE POINTS

2.2.14 COWL POINT—Cowl point is a point on the exterior windshield glazing surface on the zero "Y" plane at the highest height of the cowl, hood or exterior components. (See Figure 3.)

2.2.15 DECK POINT—Deck point is a point on the exterior re glazing surface on the zero "Y" plane at the highest height of the deck or exterior components. (See Figure 3.)



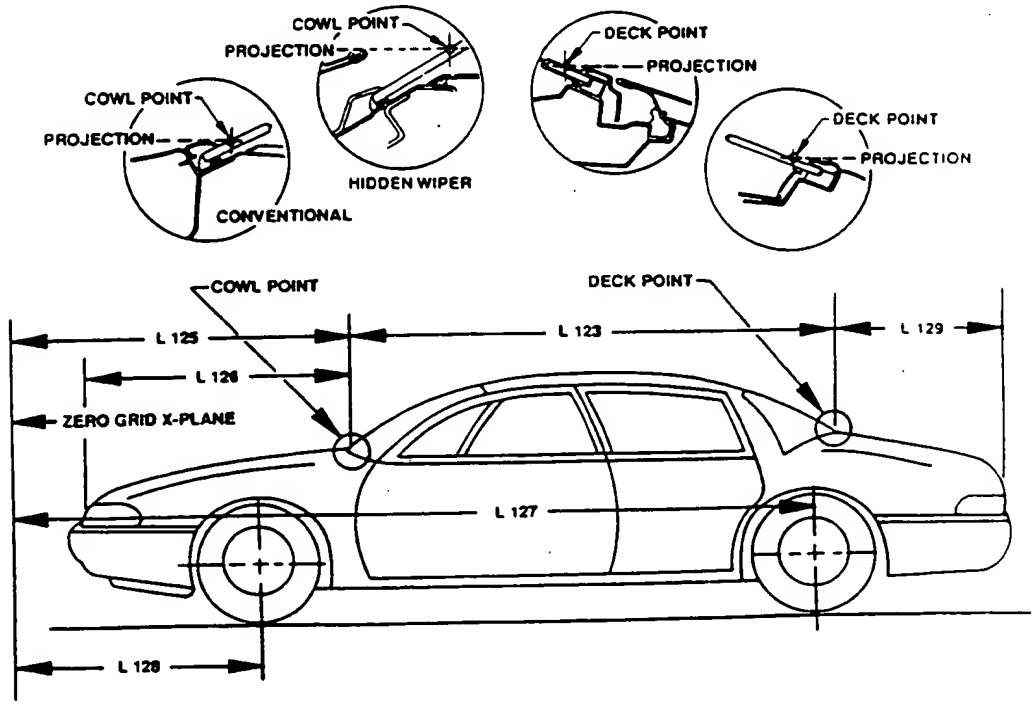


FIGURE 3—DLO AND EXTERIOR DIMENSIONS, LENGTH

2.2.16 FOOT PEDAL REFERENCES—(See Figure 2.)

2.2.16.1 Accelerator Heel Point (AHP)—The lowest point at the intersection of the manikin heel and the depressed floor covering with the shoe on the undepressed accelerator pedal. The foot angle (L46) is at a minimum of ... degrees with the manikin H-Point at the SgRP. For vehicles with SgRP to ... vertical (H30) greater than 405 mm, the accelerator pedal may be depressed as specified by the manufacturer. If the depressed pedal is used, the foot must be flat on the accelerator pedal.

2.2.16.2 Ball of Foot (BOF)—A point on a straight line tangent to the bottom of the manikin's shoe in side-view 203 mm from the Accelerator Heel Point.

2.2.16.3 Accelerator Foot Plane (AFP)—A plane passing through the Accelerator Heel Point (AHP) and the Ball of Foot (BOF) that is normal to the Y plane.

2.2.17 CENTERLINE OF OCCUPANT (C/LO)—Centerline of occupant is the "Y" coordinate of the center plane of the occupant in each designated seating position.

2.2.18 TORSO LINE—Torso line is the line on the two-dimensional drafting template connecting the shoulder reference point-SAE J826 and the H-point (corresponds to centerline of head room probe in full back position of H-point machine).

2.2.19 FRONT OF DASH—Front of dash represents a vertical tangent to the foremost predominating surface of the dash panel at the centerline of driver, disregarding flanges and small localized formations. The dash panel is usually the vertical extension of the toe panel.

2.2.20 UNDEPRESSED FLOOR COVERING—Undepressed floor covering is the surface of the floor covering at a designated point on the vehicle without any load applied to the covering.

2.2.21 DEPRESSED FLOOR COVERING—Depressed floor covering is the surface of the floor covering at a designated point in the vehicle, with a load applied to the covering as specified by the manufacturer.

2.2.22 DAYLIGHT OPENING DLO—Daylight opening is a line on the exterior glazing surface that defines the minimum unobstructed opening through any glass aperture, including opaque coatings, reveal or garnish moldings adjoining ... glass, according to a given direction or projection. Opaque coatings, reveal ... garnish moldings adjoining the interior glazing surface are projected normal ... outward to the exterior glazing surface. Interior components not adjoining to the glass are projected horizontally to the interior glazing surface, then normal and outward to the exterior glazing surface. Exterior components are projected horizontally to the exterior glazing surface (see Figure 3).

2.2.23 THIGH CENTERLINE—Line connecting H-point and knee pivot point. (See SAE J826.)

2.2.24 LEG CENTERLINE—Line connecting knee pivot point and ankle pivot point. (See SAE J826.)

2.2.25 NORMAL TOP OF FRAME-TRUCK—The longest normal surface of the top flange of the truck frame within the wheel base.

2.2.26 CARGO FLOOR—The surface for supporting cargo including ribs, or undepressed floor covering.

3. General—The dimensions in this report will enable the measurement of a vehicle as designed. The prefix "A" may precede a dimension taken from a vehicle as built, which will enable a comparison between vehicles as designed and/or built.

This document supersedes the dimension definitions in J1100-Passenger Car Dimensions, previously contained in Section E-1, and Truck Dimensions previously contained in E-7 of the SAE Drawing Standards.

All dimensions are defined normal to the three-dimensional reference system, described in SAE J182 except for ground-related dimensions which are defined normal to ground with the vehicle loaded to a design load weight, unless defined in the dimension definition.

All dimensions are measured to the base vehicle and do not include Regular Production Options (RPO) or accessory parts, unless defined by the dimension definition.

The dimensions in this document are classified in groups of relevant interest. Each dimension is assigned a code which is composed of a prefix letter denoting the direction or type of dimension and a number issued in sequence as required by each prefix letter. The code is interpreted as follows:

NOTE—# in front of dimension code indicates a change from the previous ... sion of SAE J1100.

The prefix letter:

W-Width dimensions
H-Height dimensions
PD-Passenger distribution dimensions
L-Length dimensions
S-Surface area dimensions
SD-Seat facing direction dimensions
V-Volume dimensions
PL-Pedal Lengths (sizes & clearances)
PW-Pedal Widths (sizes & clearances)
PH-Pedal Heights (sizes & clearances)
TL-H-Point Location & Travel
TH-H-Point Location & Travel

The number:

1-99	Interior dimensions
100-199	Exterior dimensions
200-299	Cargo or luggage dimensions
300-399	Interior dimensions-Unique for Truck and MPV's
400-499	Exterior dimensions-Unique for Truck and MPV's
500-599	Cargo Dimensions-Unique for Truck and MPV's

To assist in locating dimensions in this document, numeric and alphabetic sequences are shown in Sections 14 and 15.

3.1 Interior Dimensions—All interior dimensions are defined with an adjustable front seat in its rearmost normal driving position, resulting in the Design H-point being positioned at the seating reference point (SgRP) position. All other adjustable features, such as an adjustable steering wheel and adjustable seat height, a seatback that adjusts independently from the seat cushion, power 4-way or 6-way seats, etc., shall be positioned in their normal driving position as specified by the manufacturer. Steering wheel shall be positioned with front wheels in straight-ahead position.

All interior dimensions are defined on the Y-plane of the driver, unless otherwise defined in the dimensions definition. The H-point machine and two-dimensional drafting template specified in SAE J826 shall use the 95th percentile leg segments.

For heavy-duty trucks, suspension seats will be positioned as specified by the vehicle manufacturer in the normal driving position with any fore and aft isolator locked out.

3.2 Exterior Dimensions—All exterior dimensions terminate at the outside surface of the sheet metal, bumper, or integral moldings, unless otherwise specified. The front wheels shall be positioned in the straight-ahead position. All exterior dimensions define the proportional shape of the vehicle, as opposed to its designed pieces. For example, when two vehicles with the same front end profile are designed, one with a bolt on bumper and one with bumper integrated with the front end, the front end length dimension (L126) on both vehicles will be the same.

3.3 Cargo Dimensions—All dimensions are measured with the front seat positioned the same as the interior dimensions and all rear seats folded as specified by the manufacturer. All head restraints shall be in the stowed position and considered part of the seat.

3.4 Luggage Capacity—The luggage capacity will be measured with the use of simulated luggage described in 8.1 and properly installed, detailed in 8.2, in a luggage compartment separate from the passenger compartment.

3.5 The ISO Cargo Volume—Measuring methods allow for cargo volume comparisons with non-U.S. vehicles using ISO standards. (Refer to Section 10.)

4. Fiducial Mark Dimensions

4.1 Fiducial Mark-Number 1
L54-"X" coordinate
W21-"Y" coordinate
H81-"Z" coordinate
H161-Height "Z" coordinate to ground at curb weight
H163-Height "Z" coordinate to ground

4.2 Fiducial Mark-Number 2
L55-"X" coordinate
W22-"Y" coordinate
H82-"Z" coordinate
H162-Height "Z" coordinate to ground at curb weight
H164-Height "Z" coordinate to ground

4.3 Fiducial Mark-Number 3
L56-"X" coordinate
W23-"Y" coordinate
H83-"Z" coordinate
H167-Height "Z" coordinate to ground at curb weight
H168-Height "Z" coordinate to ground

5. Interior Dimensions

5.1 Front Seat Compartment Dimensions—Driver unless otherwise specified. (See Figures 4 through 12.)

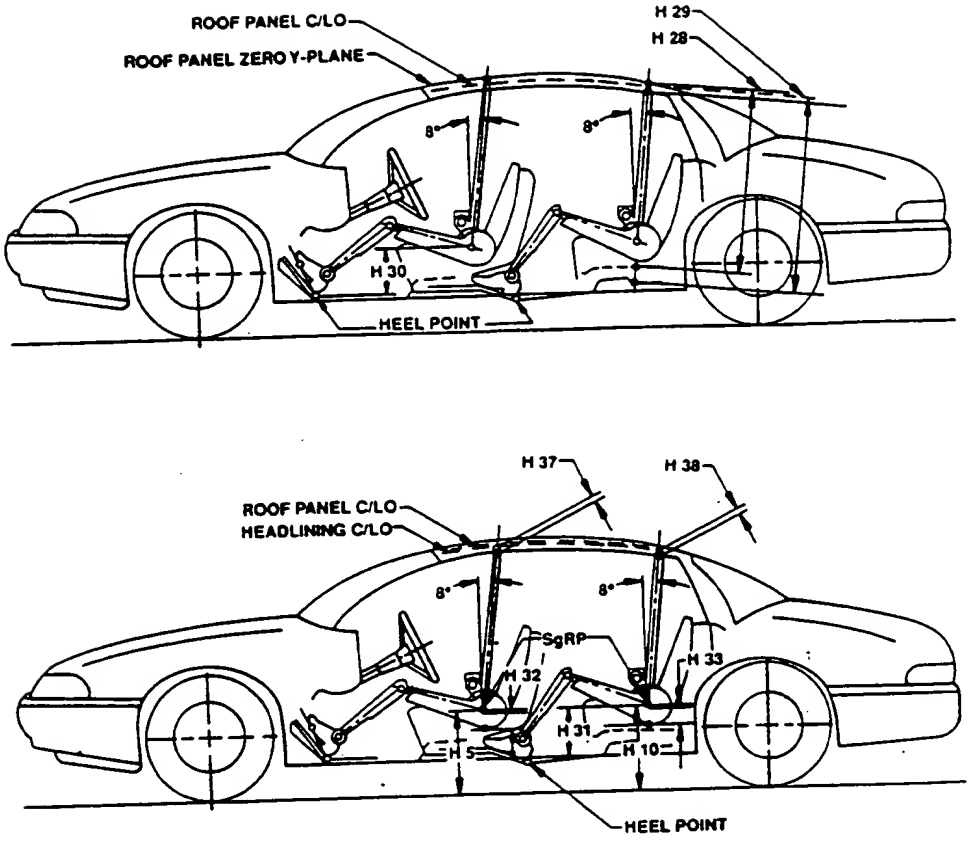


FIGURE 4—INTERIOR DIMENSIONS, HEIGHT

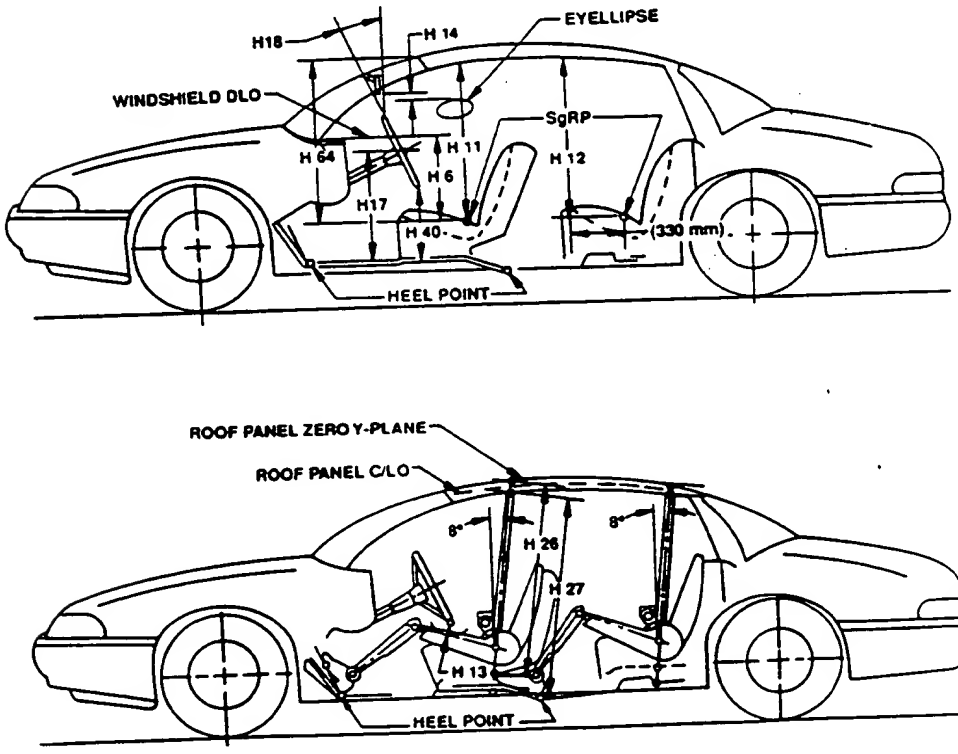


FIGURE 5—INTERIOR DIMENSIONS, HEIGHT

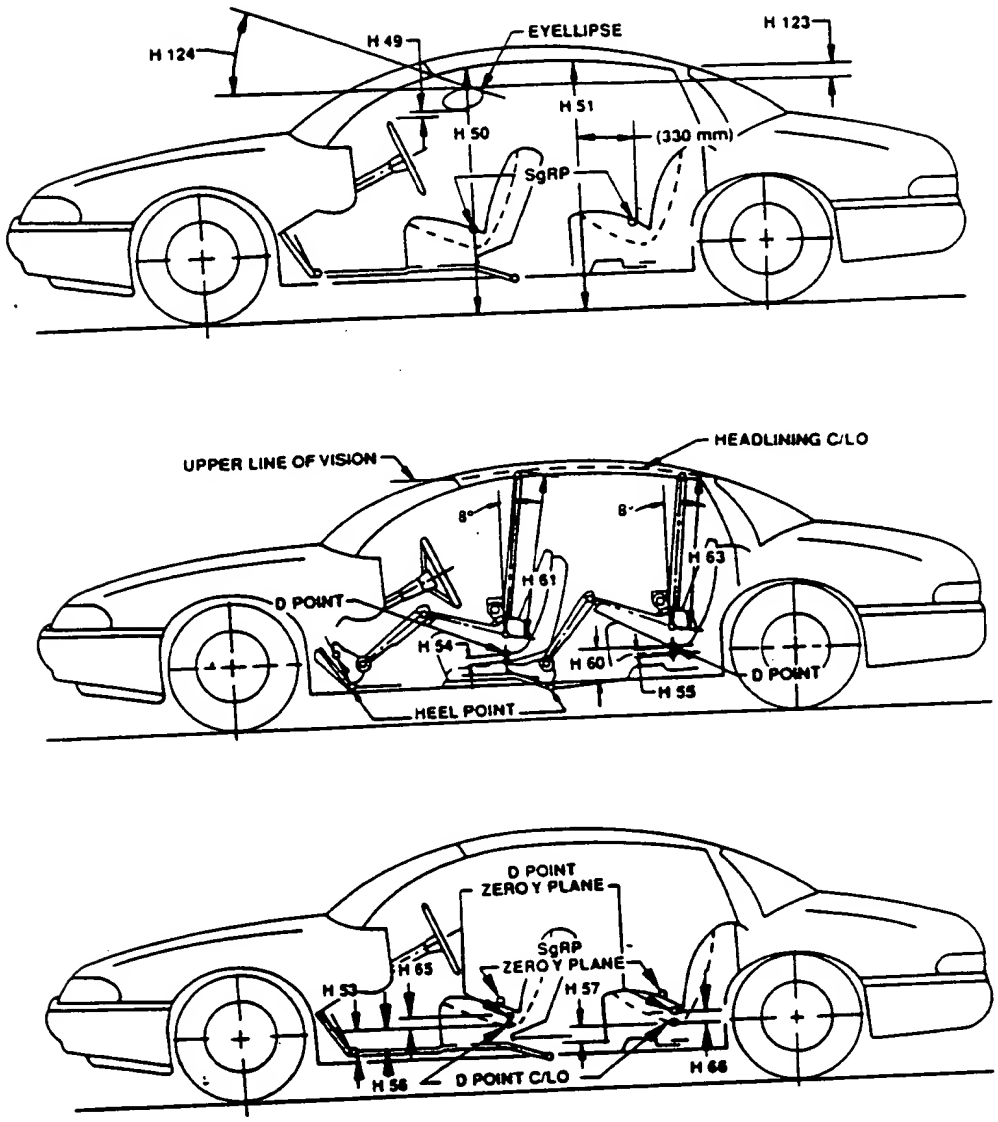


FIGURE 6—INTERIOR DIMENSIONS, HEIGHT

5.1.1 PD1-PASSENGER DISTRIBUTION-FRONT

5.1.2 H5-SGRP-FRONT TO GROUND—The dimension measured vertically from the SgRP to ground.

5.1.3 H26-INTERIOR BODY HEIGHT-FRONT AT ZERO "Y" PLANE—The dimension measured along a line 8 degrees rear of vertical which lies on the zero "Y" plane and passes through the SgRP-front "X" and "Z" coordinate from the nearest obstruction or underbody sheet metal to the roof sheet metal.

5.1.4 H27-INTERIOR BODY HEIGHT-FRONT AT SGRP "Y" PLANE—The dimension measured along a line 8 degrees rear of vertical which passes through the SgRP-front from the nearest obstruction or underbody sheet metal to the roof sheet metal.

5.1.5 H30-SGRP-FRONT T HEEL—The dimension measured vertically from SgRP-front to the accelerator heel point.

5.1.6 #H35-VERTICAL HEAD CLEARANCE-DRIVER—The minimum vertical shift of the appropriate SAE 95th percentile rear-view head position contour until any contact is made of a section on the "X" plane intersecting the side-view top of contour. For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.1.7 #H37-HEADLINING TO ROOF PANEL-FRONT—The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.

5.1.8 #H41-MINIMUM HEAD CLEARANCE-DRIVER—The minimum distance between the appropriate SAE 95th percentile side-view head position contour and any surface (headlining, molding, sun roof, etc.) on the "Y" plane intersecting the rear-view top of contour (centerline of contour). For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.1.9 H53-D-POINT-FRONT TO HEEL—The vertical dimension from the D-point to the accelerator heel point.

5.1.10 H54-D-POINT-CENTER PASSENGER-FRONT TO TUNNEL—The minimum dimension measured from the D-point-front to the underbody sheet metal at the zero "Y" plane.

5.1.11 #H56-D-POINT-FRONT T FLOOR—The minimum dimension measured from the D-point-front to the underbody sheet metal at the SgRP "Y" plane.

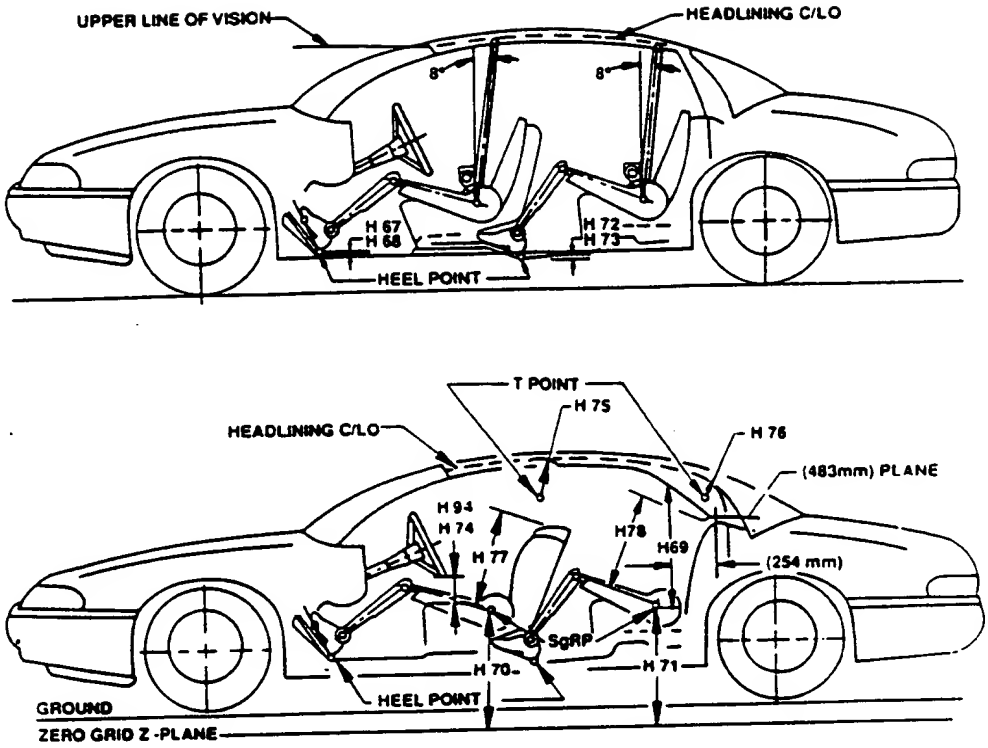


FIGURE 7—INTERIOR DIMENSIONS, HEIGHT

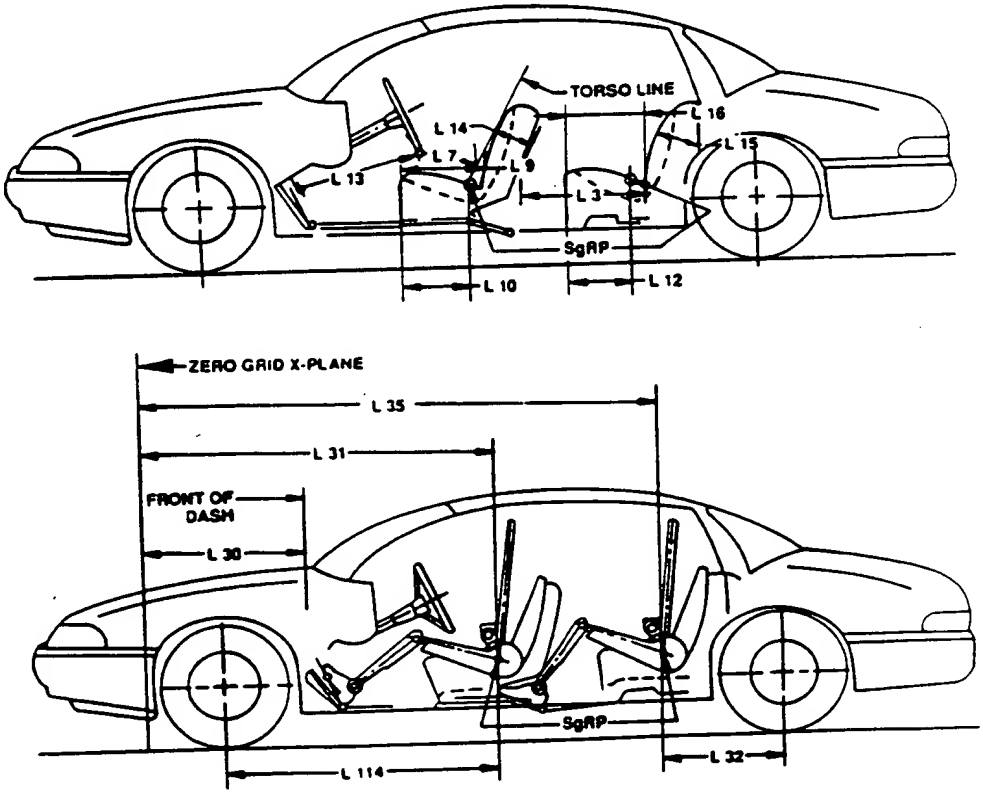


FIGURE 8—INTERIOR DIMENSIONS, LENGTH

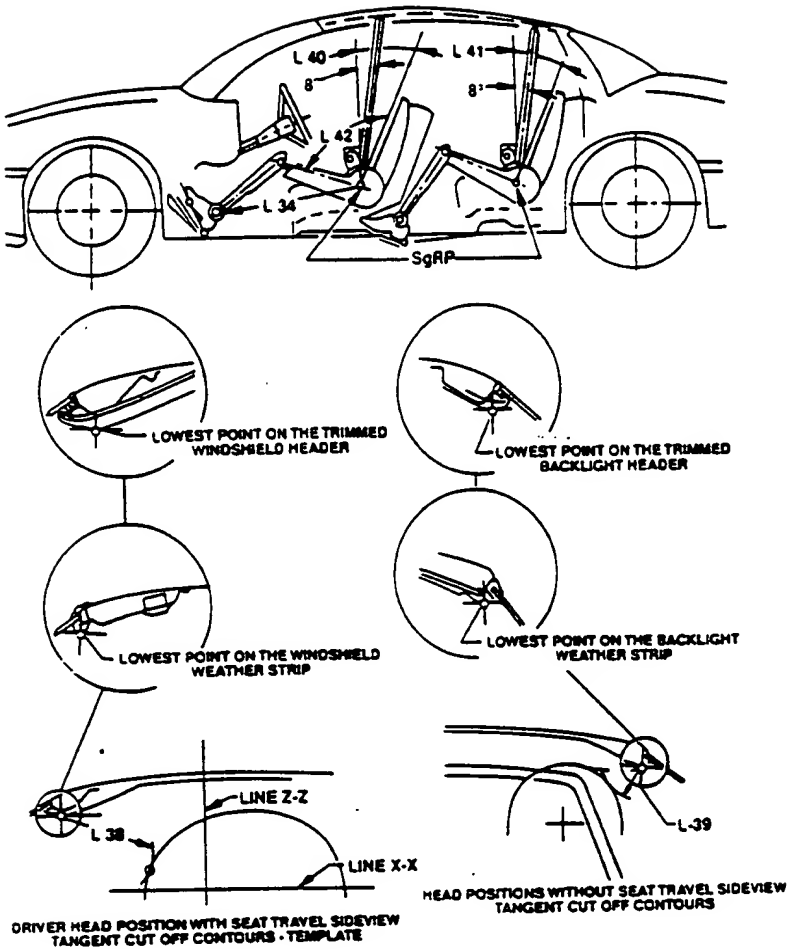


FIGURE 9—INTERIOR DIMENSIONS, LENGTH

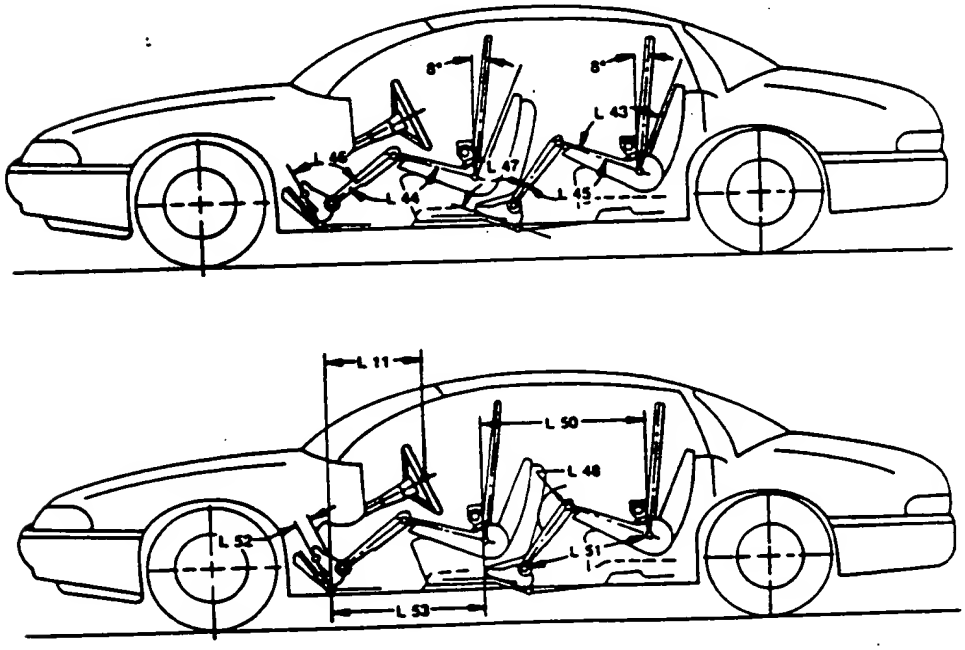


FIGURE 10—INTERIOR DIMENSIONS, LENGTH

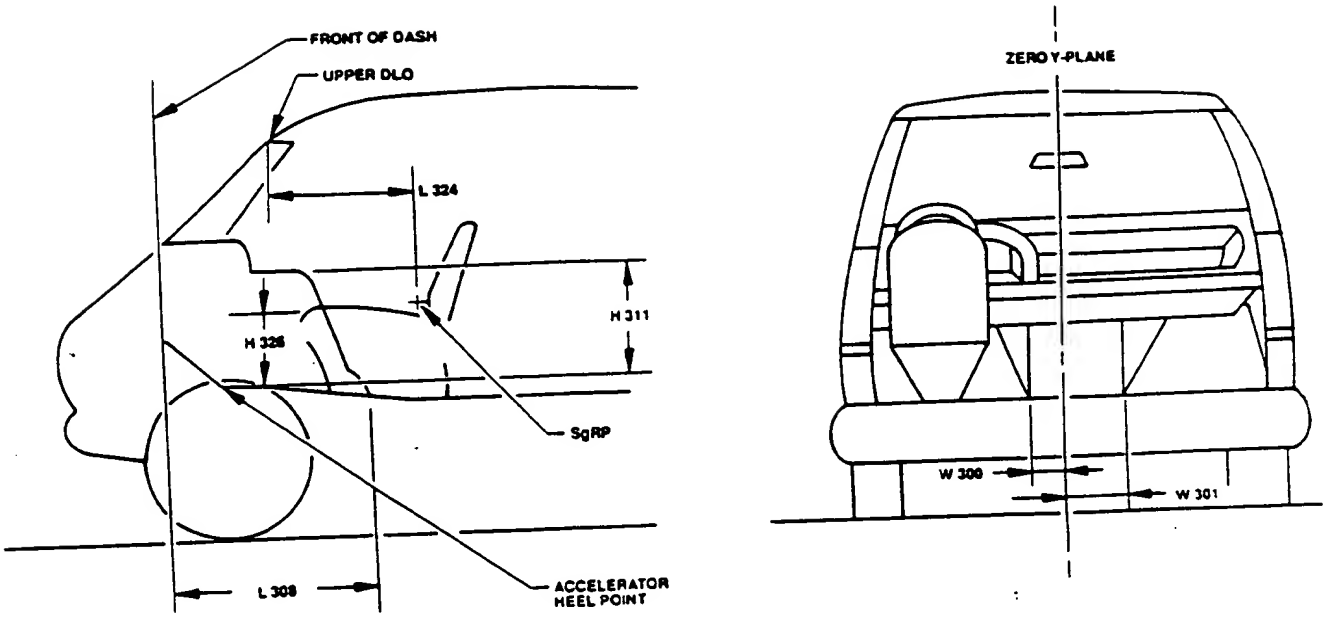


FIGURE 11—TRUCK INTERIOR DIMENSIONS, ENGINE COMPARTMENT

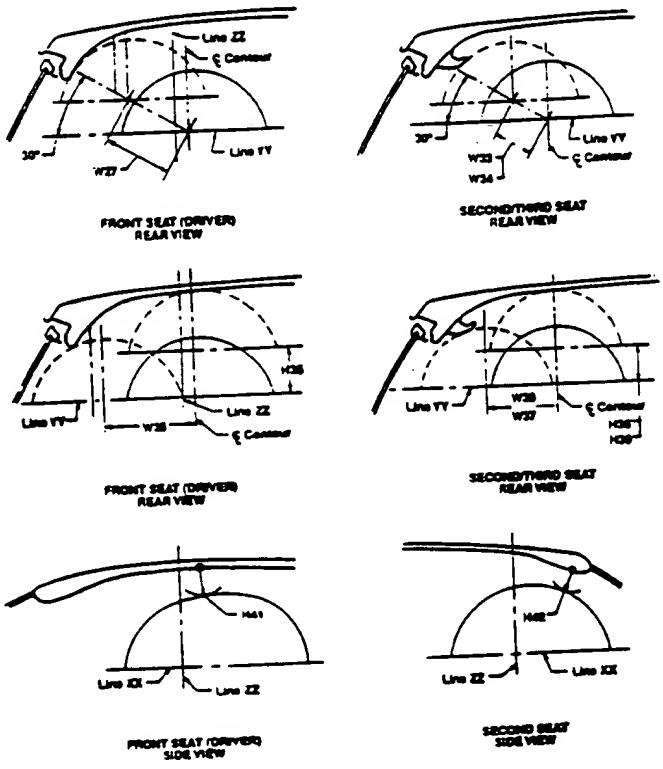


FIGURE 12—INTERIOR DIMENSIONS, WIDTH

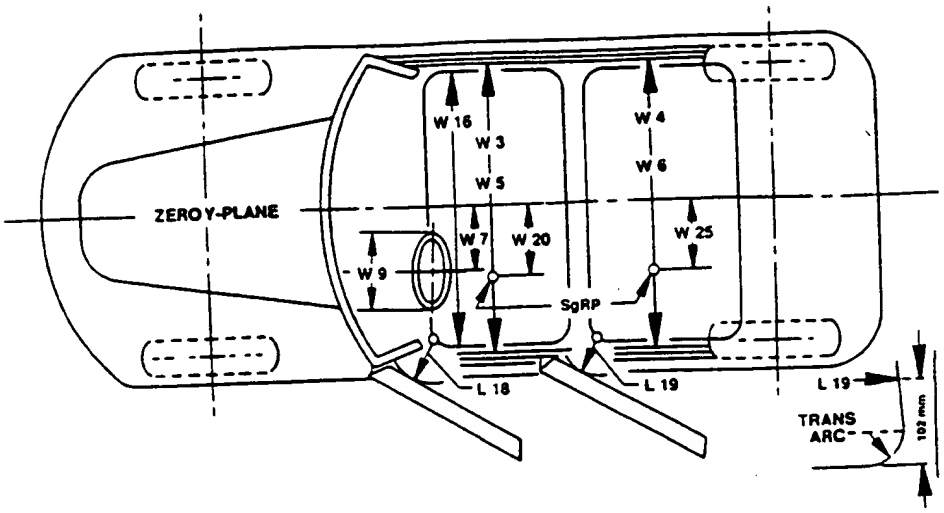


FIGURE 12—INTERIOR DIMENSIONS, WIDTH (CONTINUED)

5.1.12 H61-EFFECTIVE HEAD ROOM-FRONT—The dimension measured along a line 8 degrees rear of vertical from the SgRP-front to the headlining, plus 102 mm (4 in).

5.1.13 H65-D-POINT-FRONT-DIFFERENTIAL, SIDE TO CENTER—The dimension measured vertically from the driver D-point to the center occupant D-point.

5.1.14 H67-FLOOR COVERING THICKNESS-UNDEPRESSED-FRONT—The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

5.1.15 H68-FLOOR COVERING THICKNESS-DEPRESSED-FRONT—The dimension measured vertically from the accelerator heel point to the underbody sheet metal.

5.1.16 H70-SGRP-FRONT "Z" COORDINATE

5.1.17 H75-EFFECTIVE T-POINT HEAD ROOM-FRONT—The minimum radius from the T-point to the headlining plus 762 mm (30 in).

5.1.18 H79-SGRP DIFFERENTIAL, SIDE TO CENTER-FRONT—The dimension measured vertically from the driver SgRP to the center occupant SgRP.

5.1.19 H311-ENGINE COVER HEIGHT—The vertical dimension from accelerator heel point to top of engine cover.

5.1.20 L31-SGRP-FRONT, "X" COORDINATE

5.1.21 #L34-EFFECTIVE LEG ROOM-ACCELERATOR—The dimension measured along a line from the ankle pivot center to the SgRP-front plus 254 mm (10 in) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 405 mm the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.

5.1.22 #L38-HEAD CLEARANCE TO WINDSHIELD GARNISH-DRIVER—The minimum distance between the appropriate SAE 95th percentile side-view head position contour and the lowest horizontal tangent point on the windshield garnish molding, weatherstrip, headlining, or header measured on the Y-plane intersecting the rear-view top of contour.

5.1.23 #L40-TORSO (BACK) ANGLE-FRONT—The angle measured between a vertical line through the SgRP-front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

5.1.24 L42-HIP ANGLE-FRONT—The angle measured between torso line and thigh centerline.

5.1.25 L44-KNEE ANGLE-FRONT—The angle measured between thigh centerline and lower leg centerline measured on the right leg.

5.1.26 L46-FOOT ANGLE-FRONT—The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg (Reference J826).

5.1.27 L53-SGRP-FRONT TO HEEL—The dimension measured horizontally from the SgRP-front to the accelerator heel point.

5.1.28 L62-KNEE CLEARANCE-FRONT—The minimum dimension measured in the side-view from the knee pivot center to the nearest interference minus 51 mm (2 in). The center of knee pivots are laterally separated for proper foot placement. The right pivot is with the right foot lined up on the accelerator and the left pivot is with the left foot on the floor in line with the clutch pedal.

5.1.29 L114-FRONT WHEEL C/L TO FRONT SGRP—The horizontal dimension measured between the front wheel centerline and SgRP.

5.1.30 L308-ENGINE COVER LENGTH—The maximum dimension measured horizontally from front of dash to rear of engine cover, excluding the flanges on floor.

5.1.31 W3-SHOULDER ROOM-FRONT—The minimum dimension measured laterally between the trimmed door or quarter trim surfaces on the "X" plane through the SgRP-front at the height between the belt line and 254 mm (10 in) above the SgRP-front, excluding the door assist strap and attaching parts.

5.1.32 W5-HIP ROOM-FRONT—The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP-front within 25 mm (1 in) below, and 76 mm (3 in) above the SgRP-front and 76 mm (3 in) fore and aft of the SgRP-front.

5.1.33 W20-SGRP-FRONT, "Y" COORDINATE

5.1.34 #W27-HEAD CLEARANCE DIAGONAL-DRIVER—The minimum outboard shift of the appropriate SAE 95th percentile rear-view head position contour along a line originating at the intersection of the contour centerline and a line Y-Y and at an angle of 30 degrees above horizontal while maintaining the horizontal relationship of the contour until any contact is made at a section on the "X" plane intersecting the side-view top of contour. For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.1.35 #W35-HEAD CLEARANCE LATERAL-DRIVER—The minimum horizontal shift of the appropriate SAE 95th percentile rear-view head position contour until any contact is made at a section on the "X" plane intersecting the side- view top of contour. For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.1.36 #W38-HEAD CLEARANCE MINIMUM-DRIVER—The minimum distance measured between the SAE 95th percentile head position contour and the interior surface.

5.1.37 W300-ENGINE COVER WIDTH-LEFT—The maximum dimension measured laterally between the zero "Y" plane and the left side of engine cover, excluding flanges at floor.

5.1.38 W301-ENGINE COVER WIDTH-RIGHT—The maximum dimension measured laterally between the zero "Y" plane and the right side of the engine cover, excluding flanges at floor.

5.2 Second Seat Compartment Dimensions (Left outboard passenger unless otherwise specified.) (See Figures 6, 7, 9, and 10.)

5.2.1 PD2-Passenger Distribution-Second

5.2.2 H10-SgRP-Second To Ground—Measured in the same manner as H5.

5.2.3 H28-Interior Body Height, Second At Zero 'Y' Plane—The dimension measured along a line 8 degrees rear of vertical which lies on the zero "Y" plane and passes through the SgRP-second "X" and "Z" coordinates, from the underbody sheet metal to the roof sheet metal.

5.2.4 H29-Interior Body Height-Second At SgRP "Y" Plane—The dimension measured along a line 8 degrees rear of vertical which passes through the SgRP-second from the underbody sheet metal to the roof sheet metal.

5.2.5 H31-SgRP-Second To Heel—The dimension measured vertically from the SgRP-second to the two-dimensional device heel point on the depressed floor covering.

5.2.6 #H36-Head Clearance Vertical-Second—The minimum vertical shift of the appropriate SAE 95th percentile rear-view head position contour until any contact is made at a section at the "X" plane intersecting the side-view top of contour. For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.2.7 #H38-Headlining To Roof Panel-Second—The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.

5.2.8 #H42-Minimum Head Clearance-Second—The minimum distance between the appropriate SAE 95th percentile side-view head position contour and any surface (headlining, molding, glass, etc.) on the 'Y' plane intersecting the rear-view top of contour (centerline of contour). For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.2.9 H55-D-Point-Center Passenger-Second To Tunnel—The minimum dimension measured from the D-point to the underbody sheet metal at the zero "Y" plane.

5.2.10 H57-D-Point-Second To Floor—The minimum dimension measured from the D-point to the underbody sheet metal at the SgRP "Y" plane.

5.2.11 H60-D-Point To Heel Point-Second—The vertical dimension from the D-point to heel point with the front seat in rearmost position.

5.2.12 H63-Effective Head Room-Second—The dimension measured along a line 8 degrees rear of vertical from the SgRP to the headlining, plus 102 mm (4 in).

5.2.13 H66-D-Point-Differential, Side To Center-Second—The dimension measured vertically from the D-point to the center occupant D-point.

5.2.14 H71-SgRP-Second, "Z" Coordinate

5.2.15 H72-Floor Covering Thickness-Undepressed-Second—The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the heel point.

5.2.16 H73-Floor Covering Thickness-Depressed-Second—The dimension measured vertically from the surface of the depressed floor covering to the underbody sheet metal at the heel point.

5.2.17 H76-Effective T-Point Head Room-Second—Measured in the same manner as H75.

5.2.18 #H80-SgRP-Differential, Side To Center-Second—The dimension measured vertically from the SgRP-second to the center occupant SgRP second.

5.2.19 L3-Compartment Room-Second—The dimension measured horizontally from the back of the front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

5.2.20 L32-SgRP-Second To Rear Wheel Centerline—The dimension measured horizontally from the SgRP-second to the centerline of the rear wheels.

5.2.21 L35-SgRP-Second, "X" Coordinate

5.2.22 #L39-Head Clearance To Backlight Garnish—The minimum distance between the appropriate SAE 95th percentile side-view head position contour and the lowest horizontal tangent point on the backlight garnish molding, weatherstrip, headlining, or header, measured on the Y-plane intersecting the rear-view top of contour.

5.2.23 #L41-Torso (Back) Angle-Second—The angle measured between a vertical line through the SgRP-second and the torso line.

5.2.24 L43-Hip Angle-Second—The angle measured between torso line and thigh centerline.

5.2.25 L45-Knee Angle-Second—The angle measured between thigh centerline and lower leg centerline.

5.2.26 #L47-Foot Angle-Second—The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (reference SAE J826).

5.2.27 #L48-Knee Clearance-Second—The minimum dimension measured from the knee pivot center to the back of front seatback, minus 51 mm (2 in).

5.2.28 L50-SgRP Couple Distance—The dimension measured horizontally from the driver SgRP-front to the SgRP-second.

5.2.29 #L51-Effective Leg Room-Second—The dimension measured along line from the ankle pivot center to the SgRP-second plus 254 mm (10 in).

5.2.30 W4-Shoulder Room-Second—The minimum dimension measure laterally between the trimmed-door or quarter-trim surfaces on the "X" plan through the SgRP-second at a height between 254 to 406 mm (10 to 16 in above the SgRP-second, excluding the door-assist strap and attaching parts.

5.2.31 W6-Hip Room-Second—Measured in the same manner as W5.

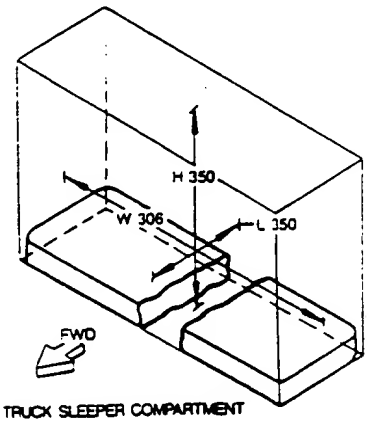
5.2.32 W25-SgRP-Second "Y" Coordinate

5.2.33 #W33-Head Clearance Diagonal-Second—The minimum outboa shift of the appropriate SAE 95th percentile rear-view head position contou along a line originating at the intersection of the contour centerline and line Y- and at an angle of 30 degrees above horizontal while maintaining the horizont relationship of the contour until any contact is made at a section on the "X plane intersecting the side-view top of contour. For interference condition, mov the head contour in the opposite direction and indicate a negative dimension.

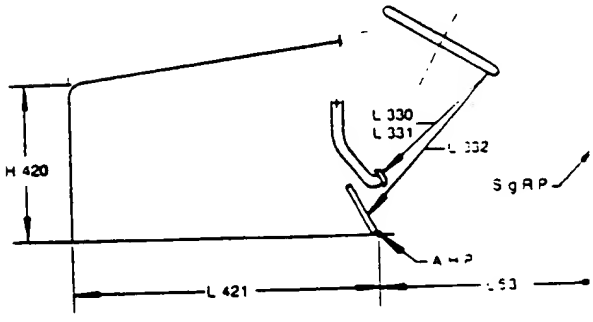
5.2.34 #W36-Head Clearance Lateral-Second—The minimum horizontal shi of the appropriate SAE 95th percentile rear-view head position contour until an contact is made at a section on the "X" plane intersecting the side-view top contour. For interference condition, move the head contour in the opposi direction and indicate a negative dimension.

5.2.35 #W39-Head Clearance-Minimum-Second—The minimum distan measured between the SAE 95th percentile head position contour and t interior surface.

5.3 Truck Sleeper Compartment Dimensions—(See Figure 13.)



TRUCK SLEEPER COMPARTMENT



PEDALS TO STEERING WHEEL CLEARANCE

FIGURE 13—TRUCK SLEEPER COMPARTMENT AND PEDALS T STEERING WHEEL CLEARANCE DIMENSIONS

5.3.1 H350-SLEEPER COMPARTMENT HEIGHT—The minimum dime from undepressed compartment overhead-trim panel to compartment (mattress base). This dimension shall be taken along the longitudinal cent of the vehicle at a point 1/2 the compartment length (L350).

5.3.2 L350-SLEEPER COMPARTMENT LENGTH—The dimension of the sleeper compartment taken at the compartment longitudinal centerline with the soft trim undepressed. Dimension shall be taken from the back of the cab to the forward of the mattress support surface. (Truck definition: sleeper width.)

3 W306-SLEEPER COMPARTMENT WIDTH—The dimension of the sleeper compartment taken between undepressed side-trim panels and perpendicular to the vehicle longitudinal centerline. This dimension shall be taken 305 mm (12 in) above the compartment floor (mattress base along the longitudinal centerline of the vehicle, at a point 1/2 the compartment length (L350)). (Truck definition: sleeper length.)

5.4 Third Seat Compartment Dimensions—Left outboard forward facing passenger unless otherwise specified. (See Figure 14.)

5.4.1 PD3-PASSENGER DISTRIBUTION-THIRD

5.4.2 SD1-SEAT FACING DIRECTION-THIRD

5.4.3 #H39-HEAD CLEARANCE VERTICAL-THIRD—The minimum vertical shift of the appropriate SAE 95th percentile rear-view head position contour until any contact is made at a section on the "X" plane intersecting the side-view top of contour. For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.4.4 H62-D-POINT TO HEEL POINT-THIRD—Measured in the same manner as H60.

5.4.5 H84-HEADLINING TO ROOF-THIRD—Measured in the same manner as H38.

5.4.6 H85-SGRP-THIRD TO GROUND

5.4.7 H86-EFFECTIVE HEAD ROOM-THIRD—The dimension measured along a line 8 degrees rear of vertical from the SgRP-third to the headlining plus a constant of 102 mm (4 in).

5.4.8 H87-SGRP-THIRD TO HEEL VERTICAL

5.4.9 H88-SGRP-THIRD "Z" COORDINATE

5.4.10 H89-EFFECTIVE T-POINT HEAD ROOM-THIRD—Measured in the same manner as H75.

5.4.11 H90-D-POINT-THIRD TO FLOOR—Measured in the same manner as H57.

5.4.12 L36-SGRP-THIRD "X" COORDINATE

5.4.13 L85-SGRP-COUPLE DISTANCE-THIRD—The dimension measured zontally from the SgRP-second to the SgRP-third.

5.4.14 L86-EFFECTIVE LEG ROOM-THIRD—The dimension measured along a line from the angle pivot center to the SgRP-third plus 254 mm (10 in).

5.4.15 L87-KNEE CLEARANCE-THIRD—The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2 in). With rear-facing third seat, dimension is measured to closure.

5.4.16 #L88-TORSO (BACK) ANGLE-THIRD—Measured in the same manner as L41.

5.4.17 L89-HIP ANGLE-THIRD—Measured in the same manner as L43.

5.4.18 L90-KNEE ANGLE-THIRD—Measured in the same manner as L45.

5.4.19 L91-FOOT ANGLE-THIRD—Measured in the same manner as L47.

5.4.20 L92-COMPARTMENT ROOM-THIRD—The horizontal dimension from the back of the second seat to the front of the third seatback at a height tangent to the top of the third seat cushion. For rear-facing third seat, measure from the trimmed seat back at a height tangent to the top of the third seat cushion surface, rearward to the interior tailgate closure.

5.4.21 W26-SGRP-THIRD "Y" COORDINATE

5.4.22 #W34-HEAD CLEARANCE DIAGONAL-THIRD—The minimum outboard shift of the appropriate SAE 95th percentile rear-view head position contour along a line originating at the intersection of the contour centerline and line Y-Y and at an angle of 30 degrees above horizontal while maintaining the horizontal relationship of the contour until any contact is made at a section on the "X" plane intersecting the side-view top of contour. For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.4.23 #W37-HEAD CLEARANCE LATERAL-THIRD—The minimum horizontal shift of the appropriate SAE 95th percentile rear-view head position contour until any contact is made at a section on the "X" plane intersecting the side-view top of contour. For interference condition, move the head contour in the opposite direction and indicate a negative dimension.

5.4.24 #W40-HEAD CLEARANCE MINIMUM-THIRD—The minimum distance measured between the SAE 95th percentile head position contour and the vehicle interior.

5.4.25 W85-SHOULDER ROOM-THIRD—Measured in the same manner as W4.

5.4.26 W86-HIP ROOM-THIRD—Measured in the same manner as W5.

5.5 Seat, Entrance and Exit Dimensions (See Figures 4 through 7, 12, 15, 16.)

5.5.1 H11-ENTRANCE HEIGHT-FRONT—The dimension measured vertically from the SgRP-front "X" plane to the upper trimmed body opening at SgRP station.

5.5.2 H12-ENTRANCE HEIGHT-SECOND—The dimension measured vertically from the SgRP-second to the upper trimmed body opening at a section 330 mm (13 in) forward of the SgRP.

5.5.3 H32-CUSHION DEFLECTION-FRONT—The dimension measured vertically from the free to the depressed front seat cushion (see SAE J826) on the SgRP-front "Y" plane.

5.5.4 H33-CUSHION DEFLECTION-SECOND—The dimension measured vertically from the free to the depressed second seat cushion (see SAE J826) on the SgRP-second "Y" plane.

5.5.5 H34-CUSHION DEFLECTION-THIRD—The dimension measured vertically from the free to the depressed third seat cushion (see SAE J826) on the SgRP-third "Y" plane.

5.5.6 H40-STEERING WHEEL TO ACCELERATOR HEEL POINT—The minimum vertical dimension measured from the lowest edge of the steering wheel, in the straight-ahead position, to the accelerator heel point.

5.5.7 H50-UPPER-BODY OPENING TO GROUND-FRONT—The dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.

5.5.8 H51-UPPER-BODY OPENING TO GROUND-SECOND—The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13 in) forward of the SgRP-second.

5.5.9 H69-EXIT HEIGHT-SECOND—The dimension measured vertically from the SgRP-second to the upper trimmed body opening 254 mm (10 in) forward of the intersection of the trimmed body opening and a horizontal plane 483 mm (19 in) above the SgRP-second seat.

5.5.10 H74-STEERING WHEEL TO CUSHION—The minimum dimension measured between the steering wheel, with the front wheels in straight-ahead position, and the undepressed seat cushion on the steering wheel center "Y" plane.

5.5.11 H77-SEATBACK HEIGHT-FRONT—A dimension measured along the torso line from the SgRP-front to a line normal to the torso line and tangent to the top of the seatback soft trim or head restraint in the stowed position.

5.5.12 #H78-SEATBACK HEIGHT-SECOND—A dimension measured along the torso line from the SgRP-second seat to a line normal to the torso line and tangent to the top of the seatback soft trim or head restraint in the stowed position.

5.5.13 #H92-SEATBACK HEIGHT-THIRD—A dimension measured along the torso line from the SgRP-third seat to a line normal to the torso line and tangent to the top of the seatback soft trim or head restraint in the stowed position.

5.5.14 H94-STEERING WHEEL TO CUSHION-MINIMUM—The minimum dimension measured between the steering wheel, with the steering wheel turned to its lower position, and the undepressed seat cushion on the steering wheel center "Y" plane.

5.5.15 H115-STEP HEIGHT-FRONT—The dimension will be to the top of the sill plate bead at the center of the lower door opening. If there is a step, the dimension is measured vertically from the ground to the first step entering the vehicle.

5.5.16 H116-STEP HEIGHT-SECOND—The dimension will be to the top of the sill plate at the center of the lower door opening. If there is a step, the dimension is measured vertically from the ground to the first step entering the vehicle.

5.5.17 H130-STEP HEIGHT-FRONT (CURB WEIGHT)—The dimension will be to the top of the sill plate at the center of the lower door opening. If there is a step the dimension is measured vertically from the ground to the first step entering the vehicle.

5.5.18 H131-STEP HEIGHT-SECOND (CURB WEIGHT)—The dimension will be to the top of the sill plate bead at the center of the lower door opening. If there is a step, the dimension is measured vertically from the ground to the first step entering the vehicle.

5.5.19 H326-SEAT CUSHION HEIGHT-FRONT—The vertical dimension from the point of intersection of the horizontal tangent to the top of the seat cushion and the vertical tangent to the front of the seat cushion, to accelerator heel point.

5.5.20 H445-SECOND STEP HEIGHT-FRONT—The vertical dimension from the first step entering vehicle to second step. If there is no second step, the dimension will be to the top of the sill plate bead at the center of the lower door opening.

5.5.21 H446-SECOND STEP HEIGHT-SECOND—The vertical dimension from the first step entering vehicle to second step. If there is no second step, the

dimension will be to the top of the sill plate bead at the center of the lower door opening.

5.5.22 L9-CUSHION DEPTH-FRONT—The dimension measured horizontally from the front edge of the cushion to an "X" plane tangent to the undepressed seatback at a height tangent to the top of the seat cushion.

5.5.23 L10-EFFECTIVE CUSHION DEPTH-FRONT—The dimension measured horizontally from the front edge of the cushion to the SgRP.

5.5.24 L12-EFFECTIVE CUSHION DEPTH-SECOND—The dimension measured horizontally from the front edge of the cushion to the SgRP.

5.5.25 L14-SEATBACK THICKNESS-FRONT—The maximum dimension measured through the front seatback, excluding bolsters.

5.5.26 L15-SEATBACK THICKNESS-SECOND—The maximum dimension measured through the second seatback, excluding bolsters.

5.5.27 L16-CUSHION DEPTH-SECOND—The dimension measured horizontally from the front edge of the cushion to an "X" plane tangent to the undepressed seatback at a height tangent to the top of the seat cushion.

5.5.28 L18-ENTRANCE FOOT CLEARANCE-FRONT—The minimum dimension measured horizontally between the trimmed front seat cushion frame or supporting structure and the trimmed door or pillar at a height between the sill plate bead and 102 mm (4 in) above the bead with the door in the maximum hold-open position.

5.5.29 L19-ENTRANCE FOOT CLEARANCE-SECOND

a. Four-Door Models-Same as L18

b. Two-Door Models-The minimum dimension measured horizonta between the trimmed front seat with front seatback tilted forward, and t trimmed lock pillar, trimmed quarter panel, or trimmed rear seat cushion a height between the sill plate bead and 102 mm (4 in) above the bead w the door in the maximum hold-open position.

5.5.30 L20-SEATBACK THICKNESS-THIRD—The maximum dimensi measured through the third seatback excluding bolsters.

5.5.31 #L21-CUSHION DEPTH-THIRD—The dimension measured horizonta from the front edge of the cushion to an "X" plane tangent to the undepress seatback at a height tangent to the top of the seat cushion.

5.5.32 L22-STEERING WHEEL TO SEATBACK—The minimum distar measured between the steering wheel, in its straight-ahead position and t undepressed seatback on the steering wheel center "Y" plane.

5.5.33 L24-EFFECTIVE CUSHION DEPTH-THIRD—The dimension measu horizontally from the front edge of the cushion to the SgRP.

5.5.34 W16-CUSHION WIDTH-FRONT—The maximum dimension measu laterally across the trimmed width of the front seat cushion.

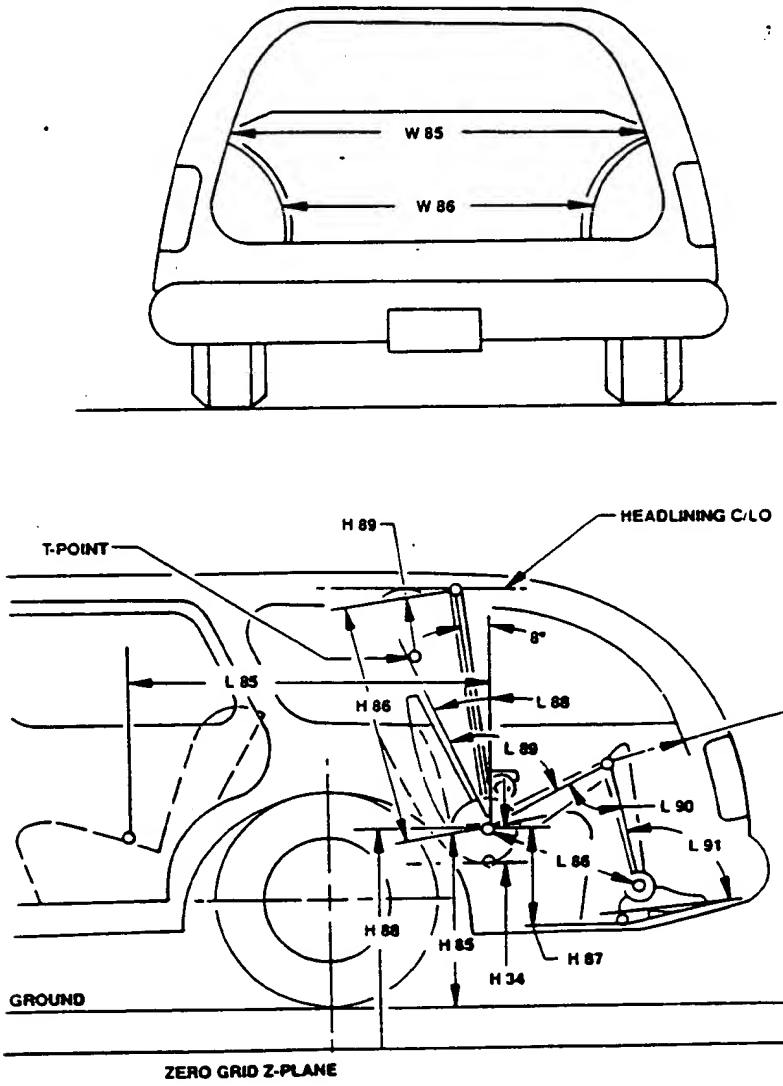


FIGURE 14—INTERIOR DIMENSIONS, STATION WAGON THIRD SEAT

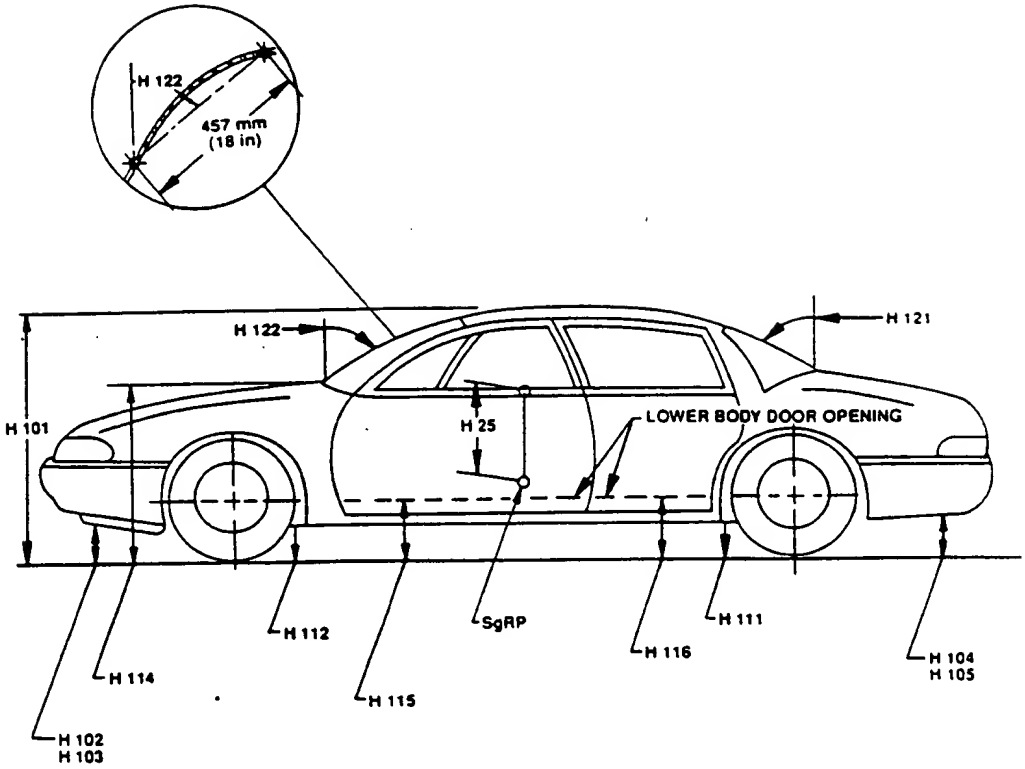


FIGURE 15—EXTERIOR DIMENSIONS, HEIGHT

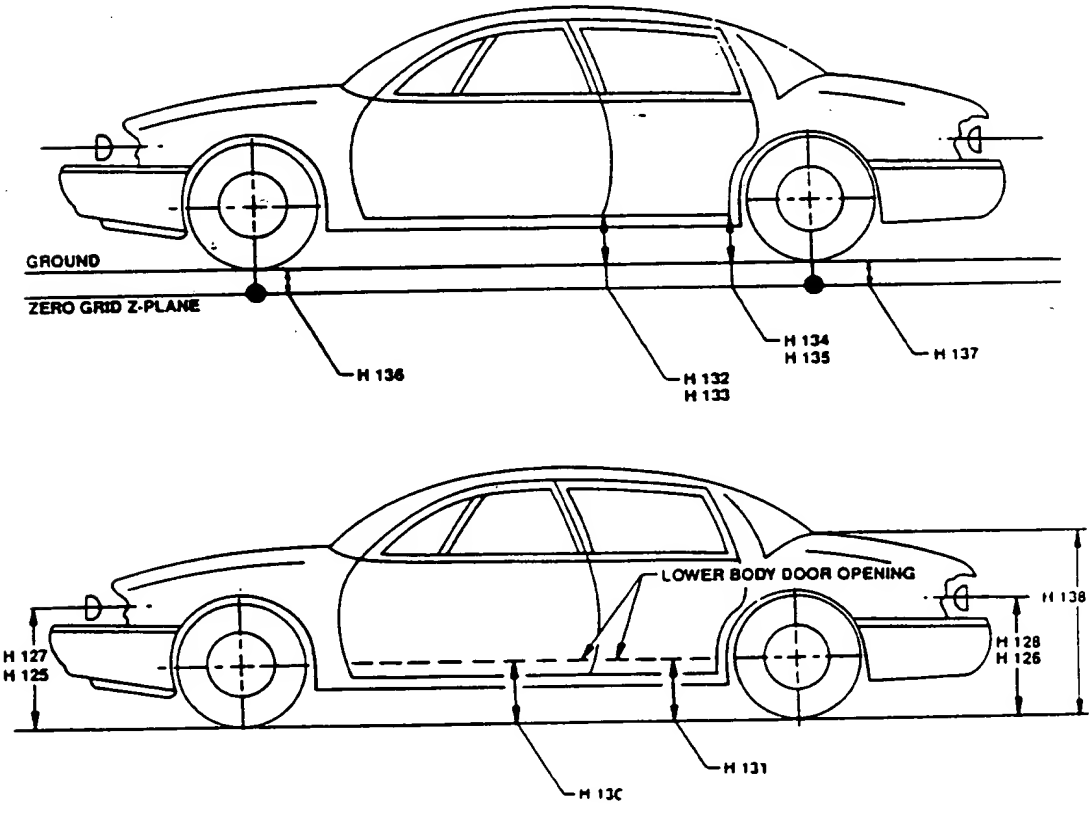


FIGURE 16—EXTERIOR DIMENSIONS, HEIGHT

5.6 Vision and Control Dimensions—Driver unless otherwise specified. (See Figures 5, 12, 13, and 15.)

5.6.1 #H6-SGRP-FR NT TO WINDSHIELD LOWER DLO—The dimension measured vertically from the SgRP-front to the windshield lower DLO at C/LO.

5.6.2 H13-STEERING WHEEL TO CENTERLINE OF THIGH—The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight-ahead position, to the thigh centerline.

5.6.3 H14-EYELLIPSE TO BOTTOM OF INSIDE REARVIEW MIRROR—The dimension measured vertically from a horizontal plane tangent to the top of the SAE 95th percentile eyellipse to the bottom edge of rearview mirror frame in the lowest usable position of adjustment. A minus (-) dimension indicates the mirror is located below the horizontal plane. (If the mirror is located on the instrument panel, the dimension will be measured from the top of the mirror frame in the highest usable position to the bottom of SAE 95th percentile eyellipse.)

5.6.4 H17-ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER—The dimension measured vertically from the AHP-front to the intersection of the steering column centerline with a plane tangent to the upper surface of the steering wheel rim.

NOTE—The steering column center is used instead of the wheel center to eliminate error that could occur with a non-symmetrical steering wheel.

5.6.5 H18-STEERING WHEEL ANGLE—The angle measured from a vertical to the surface plane of the steering wheel.

5.6.6 H25-BELT HEIGHT-FRONT—The dimension measured vertically from the SgRP-front to the bottom of the side window DLO at SgRP "X" plane.

5.6.7 H49-EYELLIPSE TO TOP OF STEERING WHEEL—The dimension measured vertically from a horizontal plane tangent to the bottom of the SAE 95th percentile eyellipse to the top of the steering wheel, in the straight-ahead position. A minus (-) dimension indicates the bottom of the eyellipse is located below the top of the steering wheel.

5.6.8 #H64-SGRP-FRONT TO WINDSHIELD UPPER DLO—The dimension measured vertically from the SgRP-front to the windshield upper DLO at C/L of driver.

5.6.9 #H121-BACKLIGHT SLOPE ANGLE—The angle between a vertical reference line at the vehicle zero `Y' plane and a 457 mm (18 in) chord of the backlight arc running from the deck point to the intersecting point on the exterior backlight glazing surface. Measure the same as H122.

5.6.10 #H122-WINDSHIELD SLOPE ANGLE—The angle between a vertical reference line at the vehicle zero `Y' plane and a 457 mm (18 in) chord of the windshield arc running from the cowl point to the intersecting point on the exterior windshield glazing surface.

5.6.11 H123-EYELLIPSE TO BACKLIGHT UPPER OPENING—The vertical distance from a horizontal plane tangent to the top of the SAE 95th percentile eyellipse to the highest horizontal line of vision through the backlight upper trimmed body opening at zero `Y' plane.

5.6.12 H124-VISION ANGLE TO WINDSHIELD UPPER DLO—The angle from the horizontal to a plane tangent to the top of the SAE 95th percentile eyellipse and to the upper trimmed body opening measured at C/LO.

5.6.13 #H129-WINDSHIELD SLOPE-DRIVER VISION—(Class A Vehicles only) The angle from vertical to a line defined by two sightline intersection points on the exterior windshield glazing surface. These sightlines are drawn from the 95% eyellipse (see SAE J941) in the X/Z plane through the `Y' centerline of driver. The upward angle sightline is at 7 degrees tangent to the upper portion of the eyellipse while the downward angle sightline is at 5 degrees tangent to the lower portion of the eyellipse.

5.6.14 H420-DISTANCE FROM AHP TO INTERSECTION OF FRONT AND TOP SURFACE OF HOOD

5.6.15 L7-STEERING WHEEL TORSO CLEARANCE—The minimum dimension measured in the side-view from the rearmost edge of the steering wheel with front wheels in the straight-ahead position, to the torso line.

5.6.16 L11-ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER—The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.

5.6.17 #L13-BRAKE PEDAL KNEE CLEARANCE—See Section 12 - Pedal Dimensions.

5.6.18 #L52-BRAKE PEDAL TO ACCELERATOR—See Section 12 - Pedal Dimensions.

5.6.19 #L324-SGRP TO WINDSHIELD UPPER DLO—The horizontal dimensi from the SgRP to the point of tangency of a horizontal line to upper DLO at C of driver.

5.6.20 L330-CLUTCH PEDAL TO STEERING WHEEL CLEARANCE—T minimum dimension in side-view from the lower edge of the steering wheel r to the centerline of the clutch pedal face with pedal in the free or undepress position.

5.6.21 L331-BRAKE PEDAL TO STEERING WHEEL CLEARANCE—T minimum dimension in side-view from the lower edge of the steering wheel r to the centerline of the brake pedal face with pedal in the free or undepress position.

5.6.22 L332-ACCELERATOR PEDAL TO STEERING WHEEL CLEARANCE—T minimum dimension in side-view from the lower edge of the steering wheel r to the centerline of the accelerator pedal face with pedal in the free undepressed position.

5.6.23 L421-MAXIMUM DISTANCE FROM AHP TO INTERSECTION OF FRC AND TOP SURFACE OF HOOD

5.6.24 W7-STEERING WHEEL CENTER "Y" COORDINATE—The steering wh center is the point located by the intersection of the steering column axis v the plane tangent to the upper surface of the steering wheel rim.

5.6.25 W9-STEERING WHEEL MAXIMUM OUTSIDE DIAMETER—Define other than round.

5.6.26 W30-STEERING WHEEL TO DOOR CLEARANCE—The minim dimension from the steering wheel rim to the nearest body obstruction. Spec location.

5.6.27 W41-SIDE GLASS RADIUS—Specify location.

5.6.28 W122-TUMBLE-HOME

a. Straight Side Glass—The angle measured from a vertical to the outs surface of the front door glass at the SgRP `X' plane.

b. Curved Side Glass—The angle measured from a vertical to a cl extending from the upper DLO to the lower DLO, at the outside surfac the front door glass at the front SgRP `X' plane.

6. Exterior Dimensions

6.1 Exterior Width Dimensions (See Figures 17 and 18.)

6.1.1 W101-TREAD-FRONT—The dimension measured between the centerlines at the ground.

6.1.2 W102-TREAD-REAR—The dimension measured between the centerlines at the ground. In case of dual wheels, the dimension wil measured to the centerline of tire and wheel assemblies.

6.1.3 #W103-VEHICLE WIDTH—The maximum dimension measured betv the widest points on the vehicle, excluding exterior mirrors, flexible mud fl and marker lamps, but including bumpers, moldings, sheet metal protrusion dual wheels, if standard equipment.

6.1.4 W106-FRONT FENDER WIDTH—The dimension measured between widest points at the front wheel centerline, excluding moldings.

6.1.5 W107-REAR FENDER WIDTH—The dimension measured between widest points at the rear wheel centerline, excluding moldings.

6.1.6 #W116-BODY WIDTH-MAXIMUM—The dimension measured bet the widest points on the body, excluding mirrors, hardware, and ap moldings, but including fenders when integral with body.

6.1.7 #W117-BODY WIDTH AT SGRP-FRONT—The dimension mea laterally between the widest points on the body at the SgRP-front, excl door handles, applied moldings, and appliques.

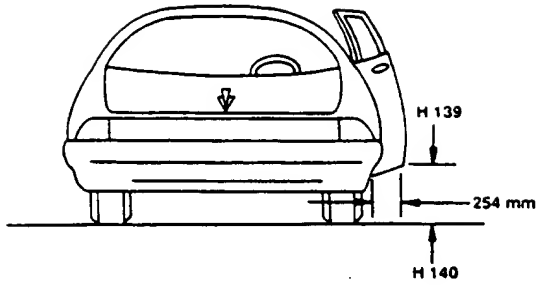
6.1.8 #W120-VEHICLE WIDTH-FRONT DOORS OPEN—The dime measured between the widest points on the front doors in maximum hold position.

6.1.9 #W121-VEHICLE WIDTH-REAR DOORS OPEN—The dimension mea between the widest points on the rear doors in maximum hold-open pos For vehicles with a rear door on only one side, this dimension is to the zer plane.

6.1.10 W409-VEHICLE WIDTH-TAIL DOORS OPEN—The dimension mea between the widest point on the tail doors in the maximum hold-open positi

6.1.11 #W410-VEHICLE WIDTH-INCLUDING OUTSIDE MIRRORS dimension measured between the widest points on the outside mirrors. standard right and left mirror adjusted for normal driving will be shown otherwise noted. When only one outside mirror is standard, the dimensio be to the zero "Y" plane.

6.2 Exterior Height Dimensions (See Figures 15, 16, 19, and 20.)



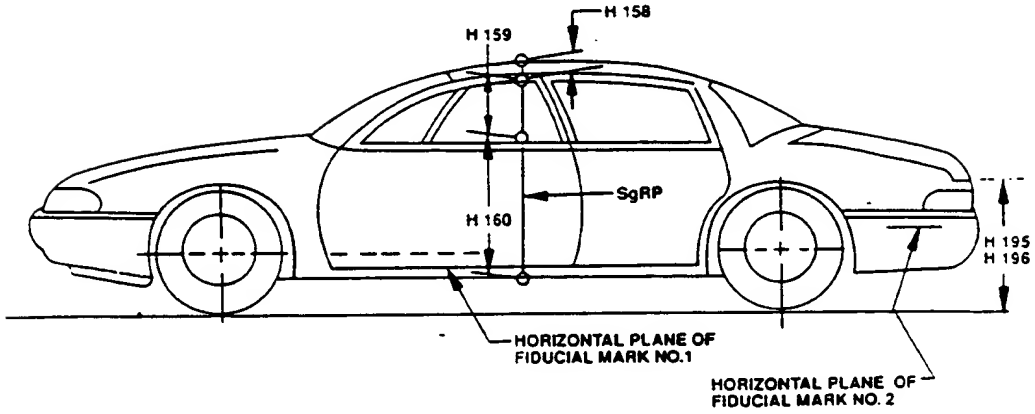


FIGURE 19—EXTERIOR DIMENSIONS, HEIGHT

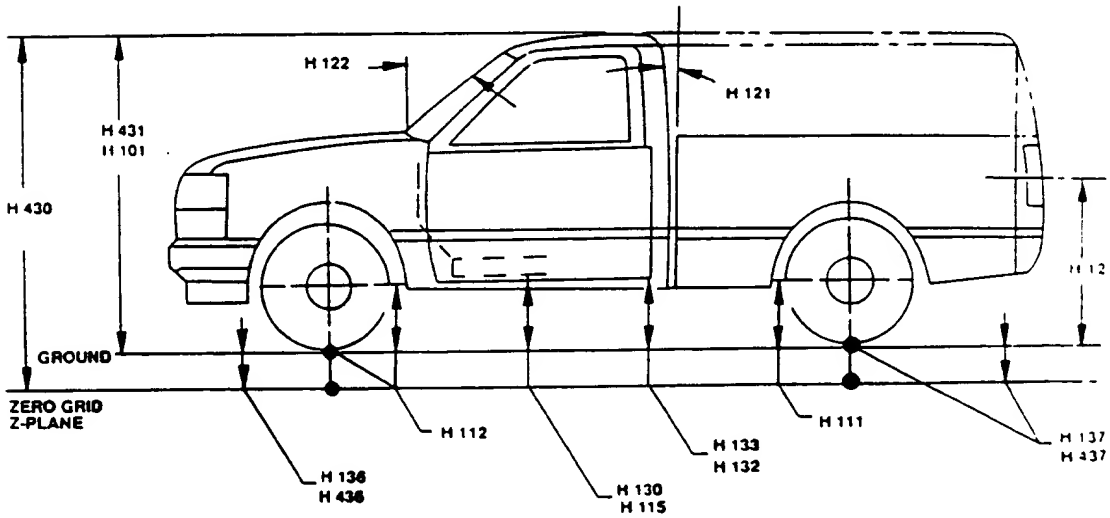


FIGURE 20—TRUCK EXTERIOR DIMENSIONS, HEIGHT

6.2.1 H101-VEHICLE HEIGHT—The dimension measured vertically from the highest point on the vehicle body to ground.

6.2.2 H111-ROCKER PANEL-REAR T GROUND—The dimension measured vertically from the bottom of the rocker- or side-quarter panel at the front of the rear wheel opening, excluding flanges, to ground.

6.2.3 H112-ROCKER PANEL-FRONT TO GROUND—The dimension measured vertically from the foremost point on the bottom of the rocker panel, excluding flanges, to ground.

6.2.4 H114-COWL POINT TO GROUND—The dimension measured from the cowl point to ground at the zero "Y" plane.

6.2.5 H125-HEADLAMP TO GROUND—The dimension measured verti from the centerline of the lowest headlamp lens to ground.

6.2.6 H126-TAILLAMP TO GROUND—The dimension measured verti from the centerline of the upper bulb to ground.

6.2.7 H127-HEADLAMP TO GROUND-CURB WEIGHT—The dimer measured vertically from the centerline of the lowest headlamp lens to groun

6.2.8 H128-TAILLAMP TO GROUND-CURB WEIGHT—The dime measured vertically from the centerline of the upper bulb to ground.

6.2.9 H132-BOTTOM OF DOOR OPEN-FRONT TO GROUND—The dimension vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position to ground.

10 H133-BOTTOM OF DOOR CLOSED-FRONT TO GROUND—The ...sion measured vertically from the bottom outside corner of the door on the lock pillar side, closed position, to ground.

6.2.11 H134-BOTTOM OF DOOR OPEN-REAR TO GROUND—The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground.

6.2.12 H135-BOTTOM OF DOOR CLOSED-REAR TO GROUND—The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, closed position, to ground.

6.2.13 H136-ZERO "Z" PLANE TO GROUND-FRONT—The dimension measured vertically at front wheel centerline to ground.

6.2.14 H137-ZERO "Z" PLANE TO GROUND-REAR—The dimension vertically at rear wheel centerline to ground. In the case of dual rear axles, the dimension will be taken at centerline between the rear wheels.

6.2.15 H138-DECK POINT TO GROUND—Measured at zero "Y" plane.

6.2.16 H139-BOTTOM OF DOOR AJAR, FRONT TO GROUND—The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, open 254 mm (10 in) to the ground.

6.2.17 H140-BOTTOM OF DOOR AJAR-REAR TO GROUND—The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, open 254 mm (10 in) to ground.

6.2.18 H158-ROOF THICKNESS—The dimension measured vertically from the top of the roof to the upper DLO at the 1270 mm (50 in), 'X' plane SgRP station, or less, if DLO obscured.

6.2.19 H159-SIDE GLASS HEIGHT—The dimension measured vertically between the upper and lower DLO at the 1270 mm (50 in), 'X' plane SgRP station or less, if DLO obscured.

6.2.20 H160-BODY THICKNESS—The dimension measured vertically from the lower DLO to the bottom of the rocker panel, excluding any flanges, at the 1270 mm (50 in), 'X' plane SgRP station, or less, unless otherwise specified.

2.21 H195-LIFTOVER HEIGHT—The dimension measured vertically from ...uggage compartment lower opening at the zero 'Y' plane to ground.

6.2.22 H196-LIFTOVER HEIGHT-CURB WEIGHT—The dimension measured vertically from the luggage compartment lower opening at the zero 'Y' plane to ground.

6.2.23 H404-MAXIMUM OVERALL HEIGHT-TILT CAB SERVICING—The vertical dimension from the highest point on the cab to ground, including exhaust outlet or other attached components, measured at the point of maximum height during tilting of the cab.

6.2.24 H430-BODY HEIGHT—The "Z" coordinate of highest point of roof.

6.2.25 H431-VEHICLE HEIGHT (CURB WEIGHT)—The dimension measured vertically from the highest point on the vehicle body to ground.

6.2.26 H436-ZERO "Z" PLANE TO GROUND-FRONT (CURB WEIGHT)—The dimension measured vertically at front wheel centerline to ground.

6.2.27 H437-ZERO "Z" PLANE TO GROUND-REAR (CURB WEIGHT)—The dimension measured vertically at rear wheel centerline to ground. In the case of dual rear axles, the dimension will be taken at centerline between the rear wheels.

6.3 Exterior Length Dimensions (See Figures 3, 21, and 22.)

6.3.1 L30-FRONT OF DASH "X" COORDINATE—A minus (-) dimension indicates actual front of dash is forward of the zero "X" plane.

6.3.2 L101-WHEELBASE (WB)—The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

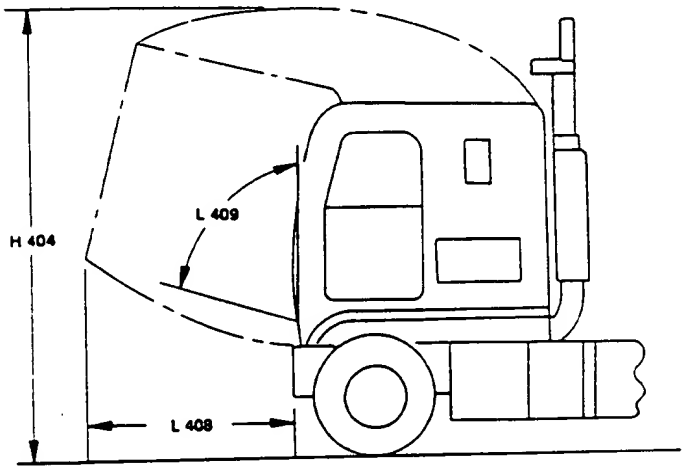


FIGURE 21—CAB SERVICING DIMENSIONS

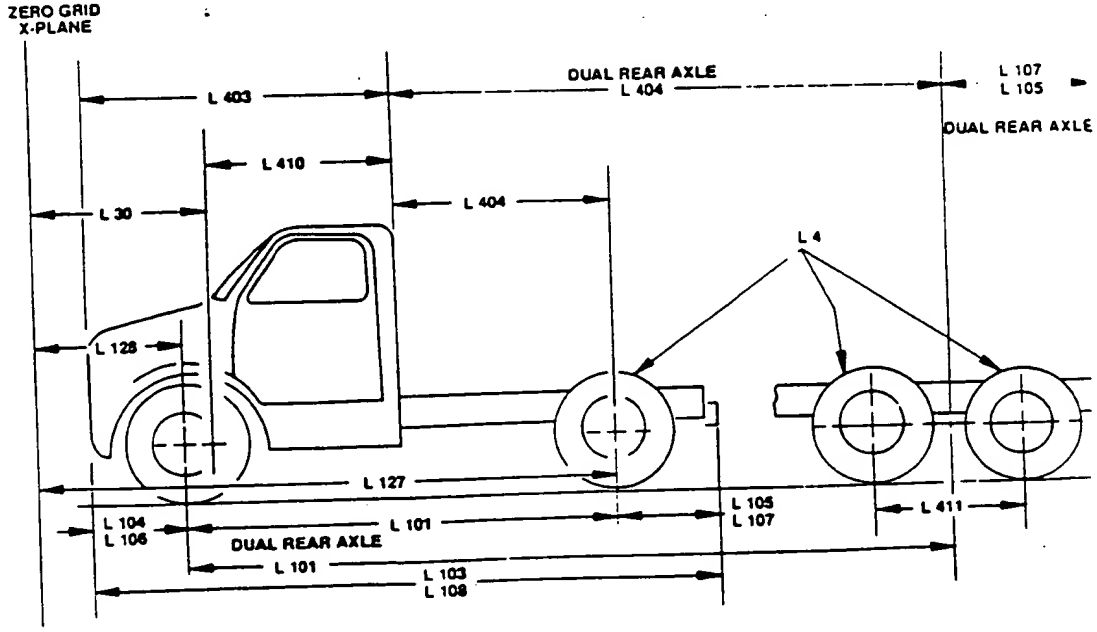


FIGURE 22—TRUCK EXTERIOR DIMENSIONS, LENGTH

6.3.3 L103-VEHICLE LENGTH—The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rubstrips, if standard equipment.

6.3.4 L104-OVERHANG-FRONT—The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle, including bumper, bumper guards, tow hooks, and/or rub strips, if standard equipment.

6.3.5 L105-OVERHANG-REAR—The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be from the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks, and rubstrips, if standard equipment.

6.3.6 L106-OVERHANG-FRONT-RPO—This dimension is measured the same as L104, except all RPO items are included.

6.3.7 L107-OVERHANG-REAR-RPO—This dimension is measured the same as L105, except all RPO items are included.

6.3.8 L108-VEHICLE LENGTH-RPO—This dimension is measured the same as L103, except all RPO items are included.

6.3.9 L123-UPPER STRUCTURE LENGTH—The dimension measured longitudinally from the cowl point to the deck point.

6.3.10 L125-COWL POINT "X" COORDINATE

6.3.11 L126-FRONT END LENGTH—The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane, excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated with the profile, measurement is made at the foremost end contour.

6.3.12 L127-REAR WHEEL CENTERLINE-"X" COORDINATE or in the dual rear axles, the coordinate shall be the midpoint of the distance betwee rear axle centerlines.

6.3.13 L128-FRONT WHEEL CENTERLINE "X" COORDINATE

6.3.14 L129-REAR END LENGTH—The dimension measured longitudina from the deck point to the rearmost visible point of the body sheetmetal at zero "Y" plane, excluding ornamentation or bumpers.

6.3.15 L403-FRONT OF BUMPER TO BACK OF CAB (BBC)—A horizon dimension from the front of the front bumper to the back of cab at zero plane.

6.3.16 L404-CAB TO REAR AXLE (CA)—A horizontal dimension from rear axles, the dimension shall be to their midpoint.

6.3.17 L408-FRONT BUMPER TO CAB-TILT CAB SERVICING POSITION—T horizontal dimension from the front of bumper to the foremost point of the c measured with the cab in the maximum servicing tilt position.

6.3.18 L409-CAB SERVICING TILT ANGLE—The maximum angle of cab for servicing, measured from a vertical line.

6.3.19 L410-CAB LENGTH—A longitudinal dimension from front of dash back of cab at zero "Y" plane.

6.3.20 L411-DUAL REAR AXLE SPACING—Horizontal dimension fr centerline of forward rear axle to centerline of rearward rear axle at the zero plane.

6.4 Ground Clearance Dimensions (See Figure 23.)

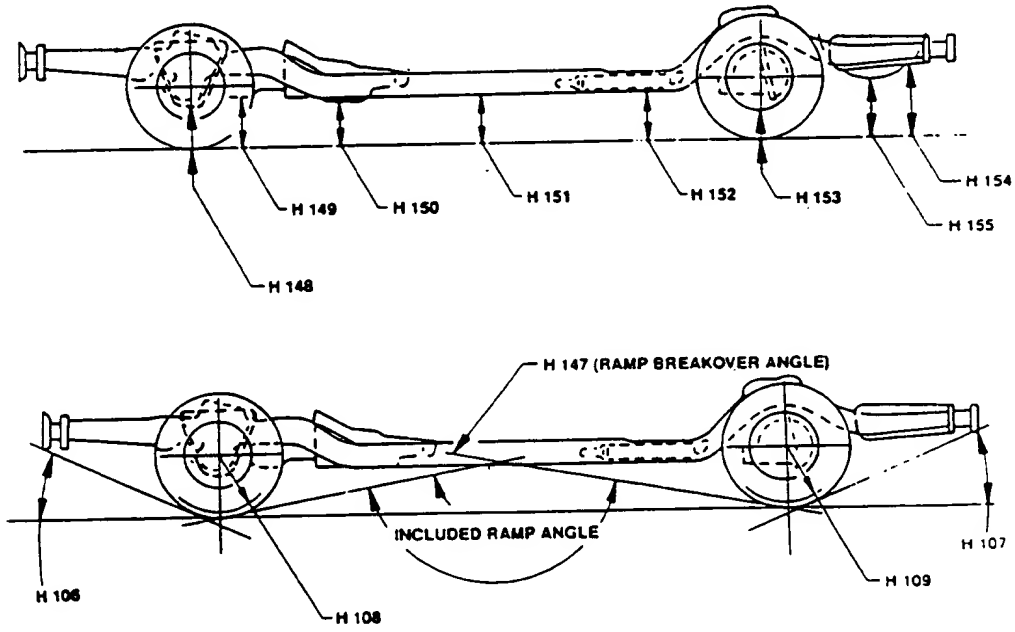


FIGURE 23—GROUND CLEARANCE DIMENSIONS

6.4.1 H102-FRONT BUMPER TO GROUND—The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.

6.4.2 H103-FRONT BUMPER TO GROUND-CURB WEIGHT—Measured in the same manner as H102.

6.4.3 H104-REAR BUMPER TO GROUND—The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

6.4.4 H105-REAR BUMPER TO GROUND-CURB WEIGHT—Measured in the same manner as H104.

6.4.5 H106-ANGLE OF APPR ACH—The angle measured between a line tangent to the front tire static-loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.

6.4.6 H107-ANGLE OF DEPARTURE—The angle measured between a tangent of the rear tire static-loaded radius arc and the initial point of struct interference rearward of the rear tire to ground. The limiting component sha designated.

6.4.7 H108-STATIC LOAD-TIRE RADIUS-FRONT—Specified by manufacturer in accordance with Composite Tire Section Standard.

6.4.8 H109-STATIC LOAD-TIRE RADIUS-REAR—Specified by manufacturer in accordance with Composite Tire Section Standard.

6.4.9 H147-RAMP BREAK VER ANGLE—The angle measured between lines tangent to the front and rear tire static loaded radius and intersecting point on the underside of the vehicle which defines the largest ramp over w the vehicle can roll.

6.4.10 H148-FRONT SUSPENSION TO GROUND—The minimum dime measured from the front suspension to ground. Specify component.

6.4.11 #H149-OIL PAN TO GROUND—The minimum dimension measured from oil pan or drain plug to ground.

6.4.12 H150-FLYWHEEL/CONVERTER HOUSING AND TRANSMISSION ASSEMBLY TO GROUND—The minimum dimension measured from flywheel/converter housing transfer case and/or transmission assembly to ground.

6.4.13 H151-FRAME STRUCTURE TO GROUND—The minimum dimension measured approximately midway between front and rear axles including cross bars and x-members to ground.

6.4.14 H152-EXHAUST SYSTEM TO GROUND—The minimum dimension measured from the exhaust system to ground. Specify location.

6.4.15 H153-REAR AXLE DIFFERENTIAL TO GROUND—The minimum dimension measured from the rear axle differential to ground.

6.4.16 #H154-FUEL TANK TO GROUND—The minimum dimension measured from fuel tank or drain plug, including supports or straps to ground.

6.4.17 H155-SPARE TIRE WELL TO GROUND—The minimum dimension measured from the spare tire well or spare tire including supports, to ground.

6.4.18 H156-MINIMUM RUNNING GROUND CLEARANCE—The minimum dimension measured from the sprung vehicle to ground. Specify location.

6.4.19 L102-TIRE SIZE—As specified by the manufacturer.

6.4.20 L4-TIRE SIZE-REAR ONLY IF DIFFERENT THAN FRONT—As specified by manufacturer.

7. Cargo Dimensions (See Figures 24 through 28.)

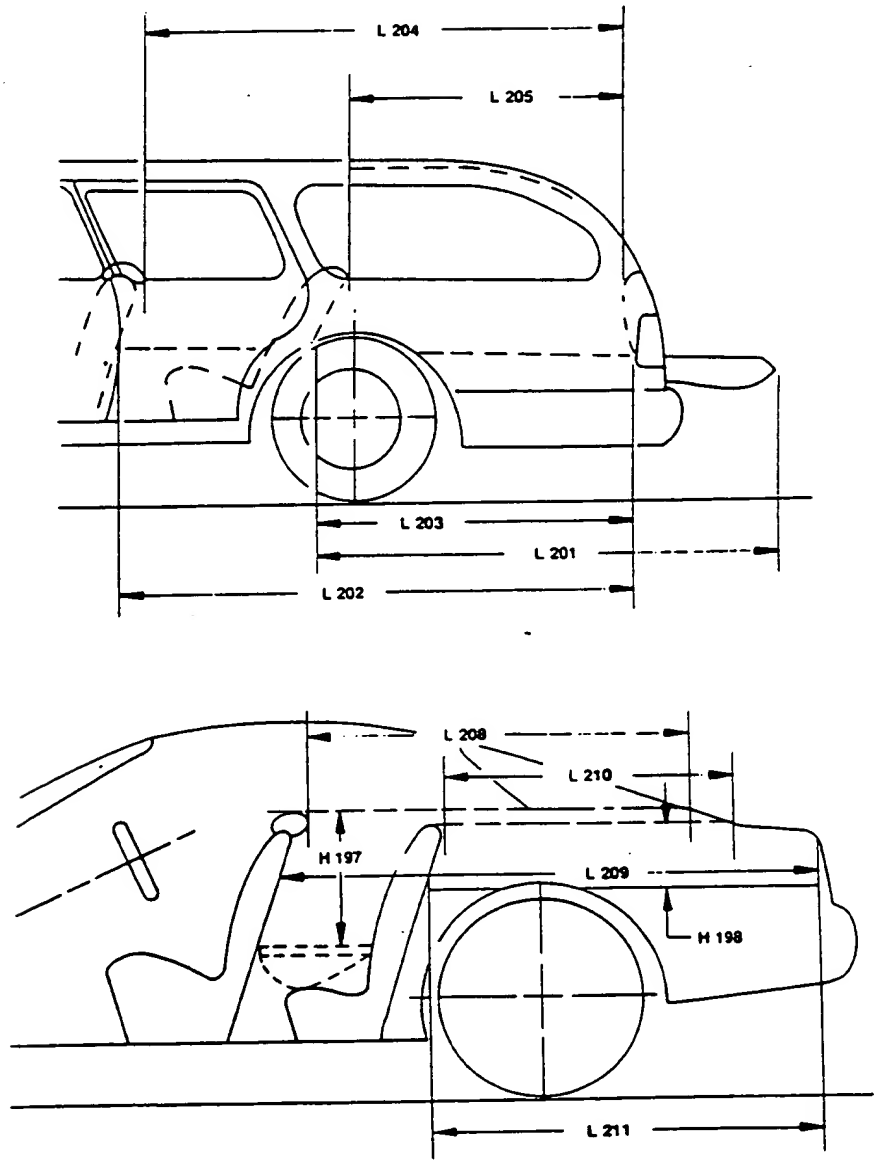


FIGURE 24—CARGO SPACE DIMENSIONS

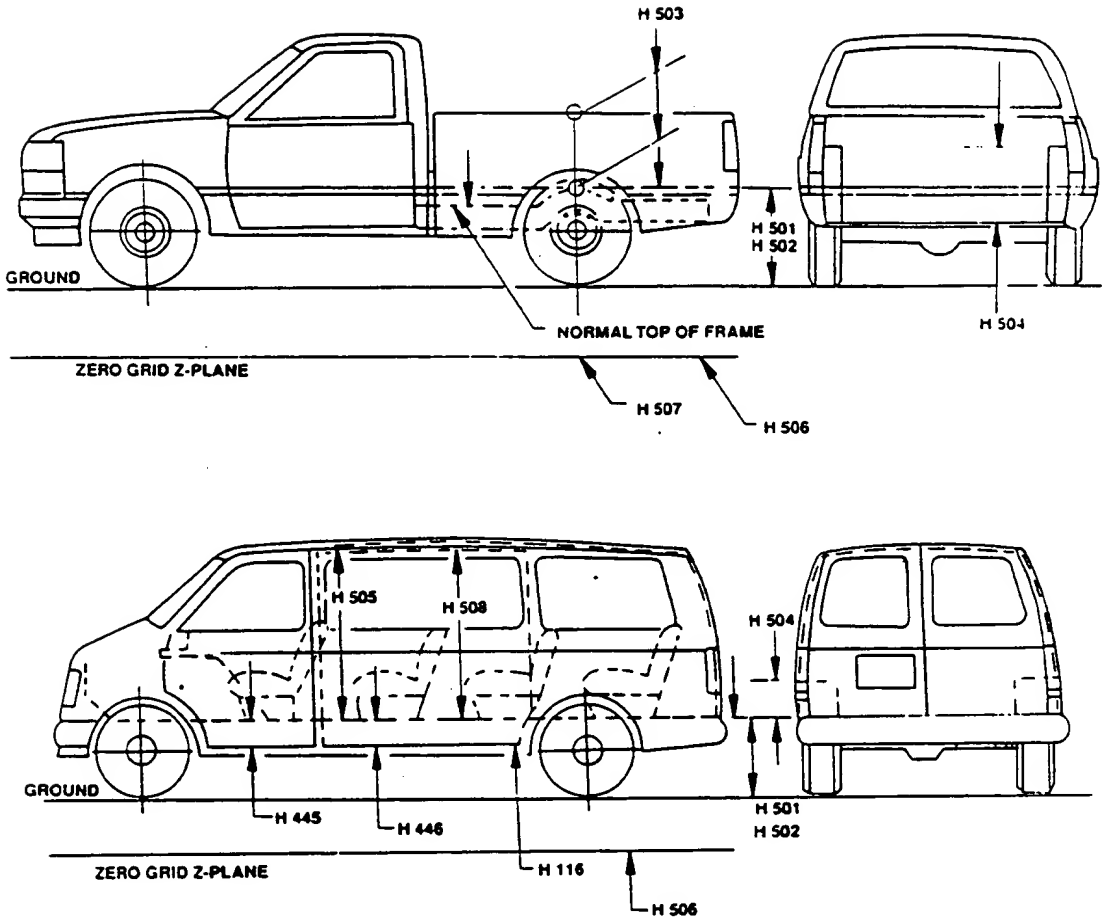


FIGURE 25—TRUCK-CARGO SPACE DIMENSIONS, HEIGHT

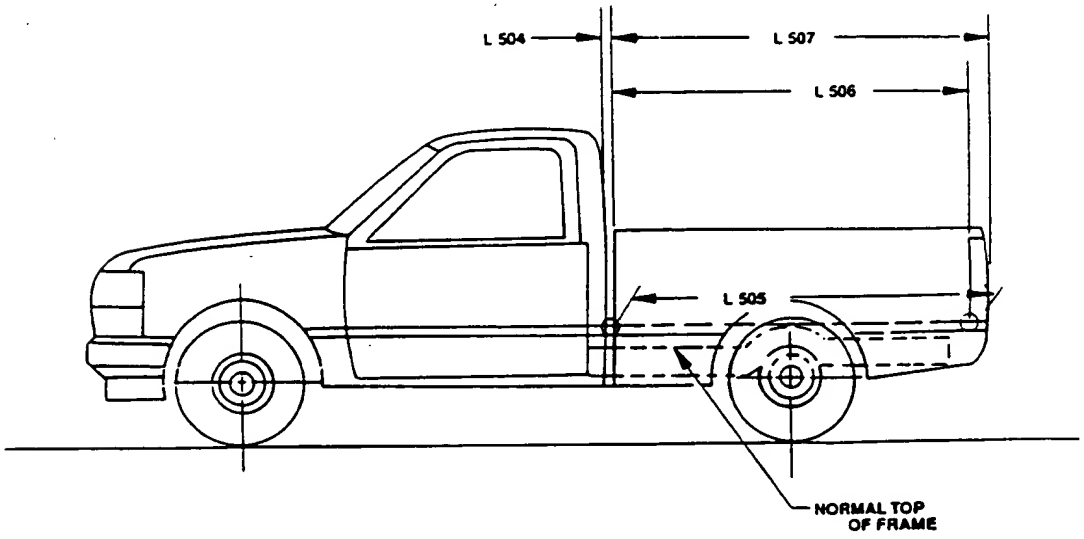


FIGURE 26—TRUCK CARGO SPACE DIMENSIONS, LENGTH

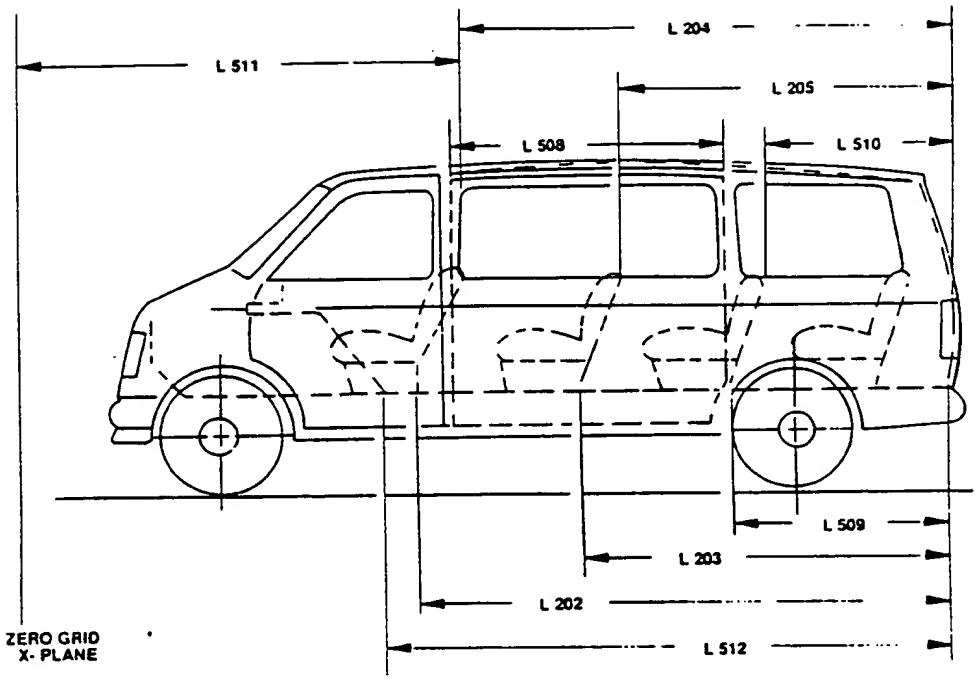


FIGURE 26—TRUCK CARGO SPACE DIMENSIONS, LENGTH (CONTINUED)

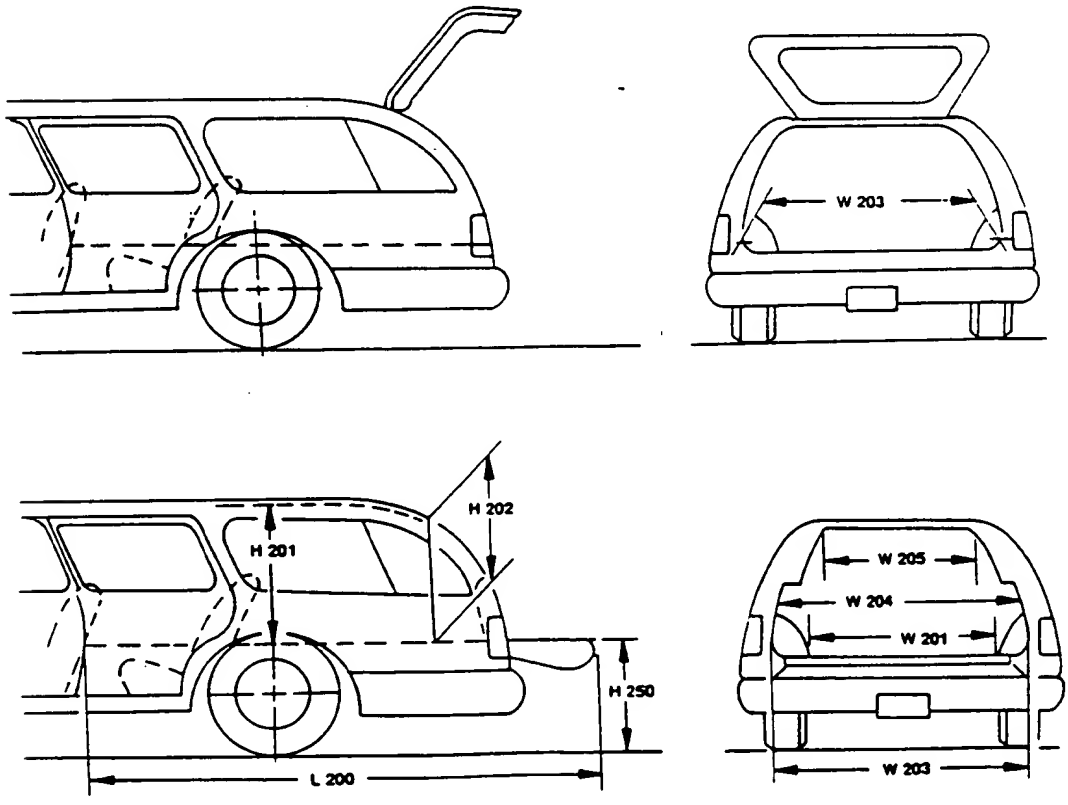


FIGURE 27—CARGO SPACE DIMENSIONS

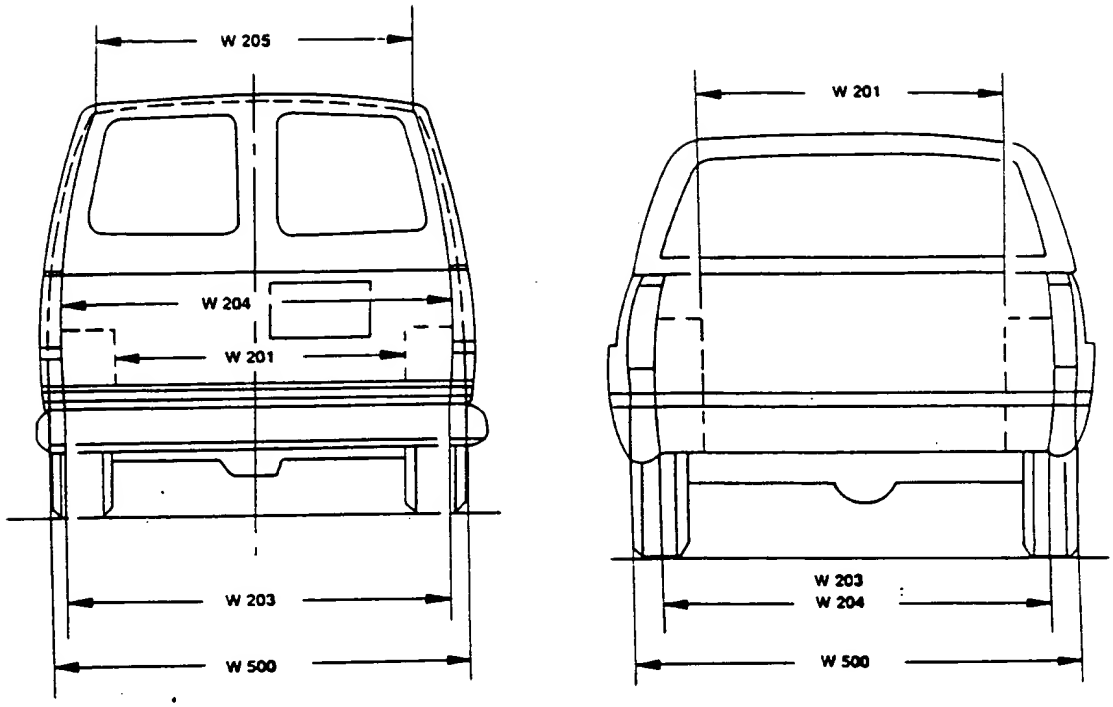


FIGURE 28—TRUCK-CARGO SPACE DIMENSIONS, WIDTH

7.1 **H197-Seatback To Load Floor Height-Front**—The dimension measured vertically from the horizontal tangent to the top of the front seatback excluding headrests to the undepressed floor covering.

7.2 **#H198-Seatback To Load Floor Height-Second**—The dimension measured vertically from the top of the second seatback excluding headrests to the undepressed floor covering.

7.3 **#H199-Seatback To Load Floor Height-Third**—The dimension measured vertically from the top of the third seatback excluding headrests to the undepressed floor covering.

7.4 **H201-Cargo Height**—The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.

7.5 **H202-Rear Opening Height**—The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.

7.6 **H250-Tailgate To Ground (Curb Weight)**—The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

7.7 **H501-Cargo Floor Height To Ground**—A vertical dimension from the cargo floor intersection with closed rear tailgate or cargo door to ground.

7.8 **H502-Cargo Floor Height To Ground (Curb Weight)**—A vertical dimension from the cargo floor intersection with closed rear tailgate or cargo door to ground.

7.9 **H503-Pickup Body Height**—The minimum dimension measured vertically from the top of cargo floor to the top of the pickup body at the rear wheel "X" coordinate.

7.10 **H504-Wheelhouse Height**—The maximum vertical dimension from top of cargo floor to the top of rear wheelhouse.

7.11 **H505-Maximum Cargo Height**—The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

7.12 **H506-Cargo Floor Height**—The "Z" coordinate of the top of cargo floor.

7.13 **H507-Frame Height**—The "Z" coordinate of normal top of frame.

7.14 **H508-Side Cargo Door Opening Height**—The dimen measured vertically from the top of the undepressed floor covering or cargo f to the upper side trimmed opening with side cargo doors open.

7.15 **L200-Cargo Length-Open-Front**—The minimum dimen measured longitudinally from the back of the front seatback at the height o undepressed floor covering to the rearmost point on the undepressed covering on the open tailgate or cargo surface, if the rear closure conventional door type tailgate, at the zero "Y" plane.

7.16 **L201-Cargo Length-Open-Second**—The dimension meas longitudinally from the back of the second seatback at the height of undepressed floor covering to the rearmost point on the undepressed covering on the open tailgate or cargo floor surface, if the rear closure conventional door type tailgate, at the zero "Y" plane.

7.17 **L202-Cargo Length-Closed-Front**—The minimum dimen measured horizontally from the back of the front seat at the height of undepressed floor covering to the rearmost point on the undepressed covering on the closed tailgate or tail door for station wagons, trucks, and M at the zero "Y" plane.

7.18 **L203-Cargo Length-Closed-Second**—The minimum dimer measured horizontally from the back of the second seat at the height o undepressed floor covering to the rearmost point on the undepressed covering on the closed tailgate or taildoor for station wagons, trucks, and M at the zero "Y" plane.

7.19 **L204-Cargo Length At Belt-Front**—The minimum dimer measured horizontally from the back of the front seatback at the seatback t the foremost normal surface of the closed tailgate or inside surface of the back panel at the height of the belt, on the zero "Y" plane.

7.20 **L205-Cargo Length At Belt-Second**—The minimum dimer measured horizontally from the back of the second seatback at the seatbac to the foremost normal surface of the closed tailgate at the height of the be the zero "Y" plane.

7.21 **L208-Cargo Length At Front Seatback Height-Hatchback**-minimum horizontal dimension from the "X" plane tangent to the rea surface of the driver's seatback to the inside limiting interference o hatchback door on the vehicle zero "Y" plane.

7.22 L209-Cargo Length At Floor-Front-Hatchback—The minimum horizontal dimension measured at floor level from the rear of the front seatback to normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

7.23 L210-Cargo Length At Second Seatback Height-Hatchback—The minimum dimension measured from the "X" plane, tangent to the rearmost surface of the second seatback or the load floor, which is stowed at least 1/2 the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.

7.24 L211-Cargo Length At Floor-Second-Hatchback—The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

7.25 L504-Cab To Pickup Body—The horizontal dimension from rear of cab to the front of the pickup body, measured at the zero "Y" plane.

7.26 L505-Pickup Body Length At Floor—The dimension measured longitudinally from inside front of pickup body to the inside of the closed tailgate measured at floor level at the zero "Y" plane.

7.27 L506-Pickup Body Length At Top Of Body—The dimension measured longitudinally from inside front of pickup body to the inside top of the closed tailgate measured at top of the pickup body at the zero "Y" plane.

7.28 L507-Cargo Body Overall Length—A longitudinal dimension of the overall cargo body length at the zero "Y" plane.

7.29 L508-Side Cargo Door Opening Length—The minimum dimension measured longitudinally between the limiting interferences with side cargo doors in maximum hold-open position.

7.30 L509-Cargo Length-Closed-Third—The minimum dimension measured horizontally from the back of the third seat (including seat support and restraint system) at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor at the zero "Y" plane. For vehicles with more than three seats, specify seat location along with dimension.

7.31 L510-Cargo Length At Belt-Third—The minimum dimension measured horizontally from the back of the third seat back to the foremost normal surface of the closed tailgate or taildoor at the height of the belt on zero "Y" plane. For vehicle with more than three seats, specify seat location along with dimension.

7.32 L511-Front Cargo Surface—The "X" coordinate of the front cargo surface. This surface is the rearmost point of driver's seat on trucks with closed cargo area and is the front surface of the inside of cargo box on trucks with open cargo area.

7.33 L512-Cargo Length To Engine Cover—The dimension measured longitudinally for the rear of the engine cover to the closed tailgate or taildoor at the zero "Y" plane. The dimension shall be at height of the cargo floor surface. If floor surface at engine cover is above cargo floor surface, then length is taken at floor to engine cover intersection height.

7.34 W201-Cargo Width-Wheelhouse—The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.

7.35 W203-Rear Opening Width At Floor—The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.

7.36 W204-Rear Opening Width At Belt—The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pickup box.

7.37 W205-Rear Opening Width Above Belt—The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height. See also Figures 27 and 28.

7.38 W500-Cargo Width At Floor—The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.

8. Luggage Capacity—(Passenger car enclosed luggage compartments including hatchbacks and station wagons partitioned to secure hidden cargo)

V1 - Luggage Capacity—Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in 8.2.

8.1 Standard Luggage Set—The standard luggage set consists of a set of replicas of luggage and golf bags (see Figure 29) with contents. A set of shoe-type boxes (H-boxes) are optionally used with the standard luggage set. Descriptions and sizes of the luggage pieces are detailed in Table 1.

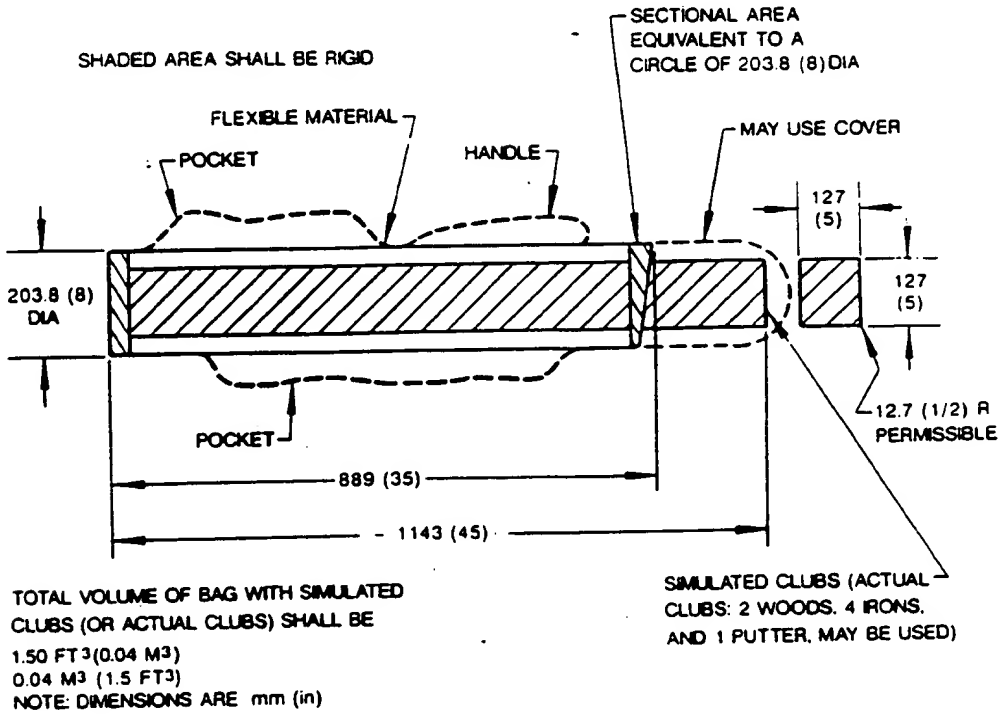


FIGURE 29—GOLF BAG

TABLE 1—STANDARD LUGGAGE SET

Luggage (with conventional handles)	Box Size mm	Box Size in	Letter	No.	Volume/Piece m^3	Volume/Piece ft^3
Men's 2-suiter	229 x 483 x 610	9 x 19 x 24	A	4	0.067	2.375
Women's overnight	165 x 330 x 457	6.5 x 13 x 18	B	4	0.025	0.880
Women's pullman	229 x 406 x 660	9 x 16 x 26	C	2	0.061	2.167
Women's wardrobe	216 x 457 x 533	8.5 x 18 x 21	D	2	0.053	1.859
Women's train case	203 x 229 x 381	8 x 9 x 15	E	2	0.018	0.625
Men's overnight	178 x 356 x 533	7 x 14 x 21	F	2	0.034	1.191
Golf bag containing:	See Figure 29		G	2	0.043	1.500
2 woods, 4 irons, 1 putter, size 10-1/2 shoes, 3 golf balls						
H-boxes	152 x 114 x 325	6 x 4.5 x 12.8	H	20	0.006	0.200
Total				38		

8.2 Procedure For Determining Usable Luggage Capacity—Place in random order as many as one standard luggage set of luggage into the luggage compartment, excluding H boxes. When the best load is obtained using the standard luggage set, H-boxes may be added to arrive at the final load. Pieces from subsequent standard luggage sets may be used when the previous set is placed in the luggage compartment. A piece from the standard luggage set may be removed to place an H-box in the compartment, provided the removed piece is replaced. The standard equipped spare tire and tools shall be properly installed in the luggage compartment. They may be loosened and moved to the limits of the attaching hardware and then retightened to attain the most advantageous position. Standard parts of the vehicle normally stored in the luggage compartment, such as a convertible top, shall be in the stored position when the usable luggage capacity is determined. The luggage compartment lid or access door must close and lock freely without forcing or excessive slamming with all of the luggage in place in the compartment.

9. Cargo Volume Index

9.1 V2 - Station Wagon Cargo Volume Maximum

$$\frac{W4 \times H201 \times L204}{10^6} = m^3 \text{ (cubic meter)} \quad \text{(Eq.1)}$$

$$\frac{W4 \times H201 \times L204}{1728} = ft^3 \quad \text{(Eq.2)}$$

9.2 #V3 - Hatchback Cargo Volume Maximum

$$\frac{\frac{(L208 + L209)}{2} \times W4 \times H197}{10^6} = m^3 \text{ (cubic meter)} \quad \text{(Eq.3)}$$

$$\frac{\frac{(L208 + L209)}{2} \times W4 \times H197}{1728} = ft^3 \quad \text{(Eq.4)}$$

9.3 V4 - Hidden Luggage Capacity-Rear Of Front Seat—The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

9.4 V5 - Open Trucks and MPV Cargo Volume

$$\frac{L506 \times W500 \times H503}{10^6} = m^3 \text{ (cubic meter)} \quad \text{(Eq.5)}$$

$$\frac{L506 \times W500 \times H503}{1728} = ft^3 \quad \text{(Eq.6)}$$

9.5 V6 - Enclosed Truck and MPV Cargo Volume-Maximum

$$\frac{L204 \times W500 \times \frac{(H201 + H505)}{2}}{10^6} = m^3 \text{ (cubic meter)} \quad \text{(Eq.}$$

$$\frac{L204 \times W500 \times \frac{(H201 + H505)}{2}}{1728} = ft^3 \quad \text{(Eq.}$$

9.6 #V7 - Enclosed Truck And MPV Cargo Volume-Behind Sec Seat

$$\frac{\frac{(L205 + L203)}{2} \times \frac{(W201 + W500)}{2} \times H198}{1728\left(10^6\right)} = ft^3\left(m^3\right) \quad \text{(Eq}$$

9.7 #V9 - Enclosed Truck And MPV Cargo Volume-Behind Tl Seat

$$\frac{\frac{(L509 + L510)}{2} \times \frac{(W201 + W500)}{2} \times H199}{1728\left(10^6\right)} = ft^3\left(m^3\right) \quad \text{(Eq.}$$

9.8 V10 - Station Wagon Cargo Volume Maximum, Behind Sec Seat

$$\frac{H201 \times L205 \times \frac{(W4 + W201)}{2}}{10^6} = m^3 \text{ (cubic meter)} \quad \text{(Eq.}$$

$$\frac{H201 \times L205 \times \frac{(W4 + W201)}{2}}{1728} = ft^3 \quad \text{(Eq.}$$

9.9 V11 - Hatchback Cargo Volume - Behind Second Seat

$$\frac{\frac{(L210 + L211)}{2} \times W4 \times H198}{1728\left(10^6\right)} = ft^3\left(m^3\right) \quad \text{(Eq.}$$

10. ISO Cargo Volumes—The following Volume Dimensions emplo International Standards Organization (ISO) method of cargo vc measurement. They are included in an effort to harmonize world-wide ve dimensioning practices and to permit accurate comparison of domestic

10.1 Cargo Volume Modules—Rectangular parallel piped with rounded edges of maximum radius 10 mm and of the volumes specified in Table 2.

Larger unit modules may be constructed to facilitate measuring oversized ...s provided that the length, width, and height of the modules are ...isionally equivalent (including tolerances) to a stack of Type A and/or Type B unit modules.

TABLE 2—CARGO VOLUME MODULES

Style	Length (mm)	Width (mm)	Height (mm)	Volume
Type A	400 ± 4	200 ± 2	100 ± 1	8 cu. dm.
Type B	200 ± 2	100 ± 1	50 ± 1	1 cu. dm.

10.2 Procedure for Determining Luggage Capacity—Place in random order as many of either type of module into the luggage compartment as will fit. The standard equipped spare tire and tools shall be properly installed. They may be loosened and moved to the limits of the attaching hardware and then retightened to attain the most advantageous position. Standard parts of the vehicle normally installed in the luggage compartment such as a convertible top shall be in the stored position when the luggage capacity is determined. The luggage compartment lid or access door must close and lock freely without forcing or excessive slamming with all of the cargo modules in place in the compartment.

10.2.1 V210-ENCLOSED LUGGAGE COMPARTMENT VOLUME—Total volumes of individual cargo volume modules stowed in the enclosed luggage compartment of a passenger car (including hatchbacks and station wagons partitioned to secure hidden cargo) in accordance with the procedure described in 10.2.

10.2.2 V211-OPEN LUGGAGE COMPARTMENT VOLUME–BEHIND THE SECOND SEAT—The total volumes of individual cargo volume modules stowed in accordance with 10.2 below a line parallel to the main load floor and tangent to the upper edge of the second seatback (excluding headrests). Any seats aft of ...econd seat may be folded and/or removed according to the manufacturer's ...uctions in order to enlarge the luggage compartment. The forward limit is ...ne rear side of the second seatback or the folded third seat.

10.2.3 V212-OPEN LUGGAGE COMPARTMENT–BEHIND THE FIRST SEAT—The total volumes of individual cargo volume modules stowed in accordance with 10.2 below a line parallel to the main load floor and tangent to the upper edge of the first seatback (excluding headrests). Rear seats may be folded and/or removed according to the manufacturer's instructions in order to enlarge the luggage compartment. The forward limit is the rear side of the front seatback, and/or the folded second seat.

10.2.4 V213-OPEN LUGGAGE COMPARTMENT–BEHIND THE THIRD SEAT—The total volumes of individual cargo volume modules stowed in accordance with 10.2 below a line parallel to the main load floor and tangent to the upper edge of the third seatback (excluding headrests). Any seats aft of the third seat may be folded and/or removed according to the manufacturer's instructions in order to enlarge the luggage compartment. The forward limit is the rear side of third seatback and/or the folded fourth seat.

10.2.5 V214-LARGEST LUGGAGE VOLUME—The total volumes of individual cargo volume modules stowed in accordance with 10.2 such that the load height is limited by the headlining. The forward limit is the rear side of rear of the front seatback, and a vertical plane tangent to and extending above the front seatback. Rear seats may be folded and/or removed according to the manufacturer's instructions in order to enlarge the luggage compartment.

11. Glass Areas

S1 - Windshield Area

S2 - Side Windows Area. Includes the front door, rear door, vents, and rear-quarter windows on both sides of the vehicle.

S3 - Backlight Areas

S4 - Total Areas. Total of all areas. (S1 + S2 + S3)

12. Pedals

12.1 Pedal Dimension Definitions—Pedal dimensions are established in two views: a side-view and a true view on the Accelerator Foot Plane in relation to the Ball of Foot (BOF) and Accelerator Heel Point (AHP). The prefix "P" is added to the L (length). W (width) and H (height) codes to denote specific pedal dimensions. Reference points for pedal dimensions are as follows:

12.1.1 Y-PLANE (SIDE-VIEW)—Ball of Foot on the Accelerator Foot Plane and Accelerator Heel Point.

12.1.2 ACCELERATOR FOOT PLANE (REAR-VIEW)—SgRP front Y coordinate (W20) and zero Y coordinate of vehicle.

12.1.3 Ball of Foot (BOF), Accelerator Heel Point (AHP), and Accelerator Foot Plane (AFP) are defined in 2.2.16.

12.2 Pedal Dimensions—(See Figures 30 to 32.)

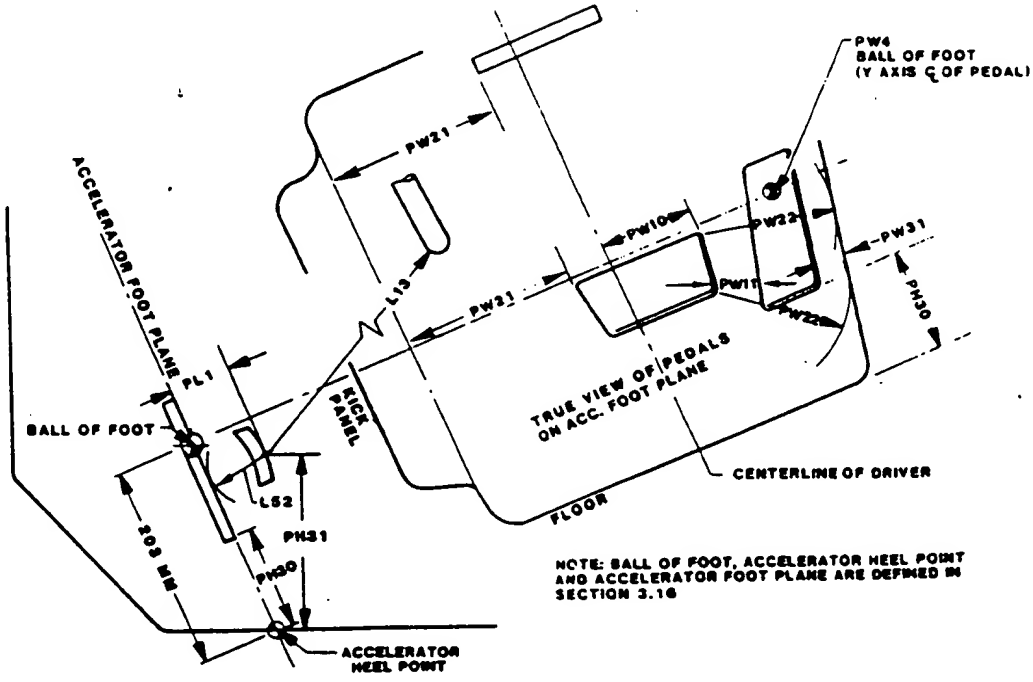


FIGURE 30—PEDAL POSITION MEASUREMENTS - AUTOMATIC TRANSMISSION

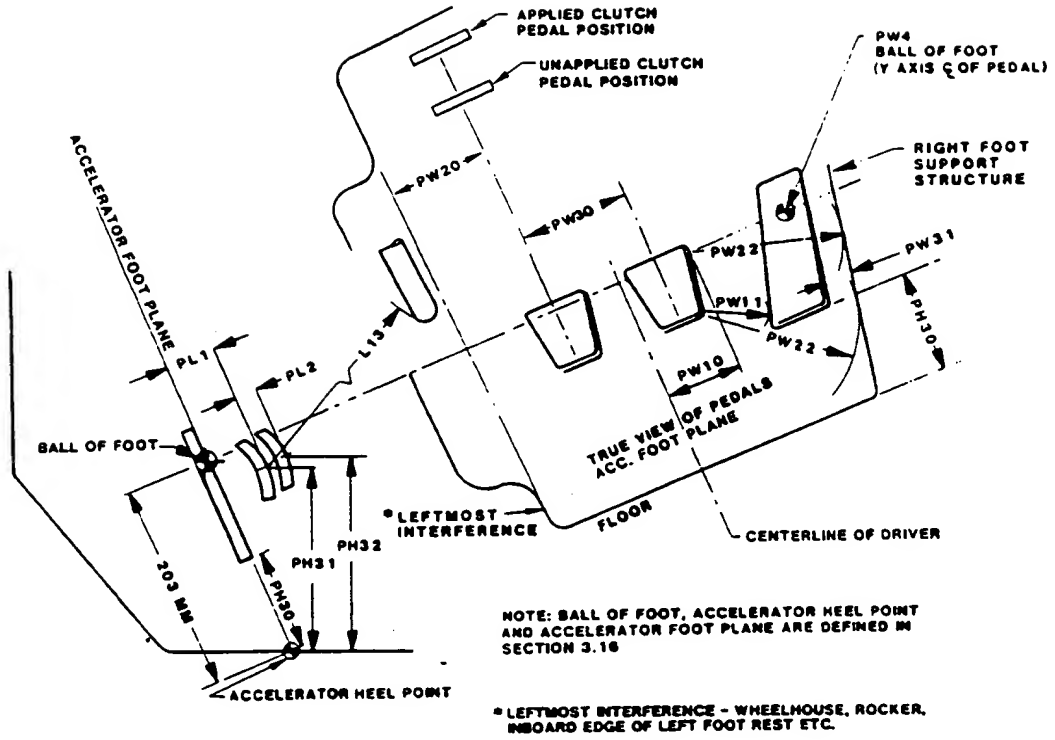


FIGURE 31—PEDAL POSITION MEASUREMENTS - MANUAL TRANSMISSION VEHICLES

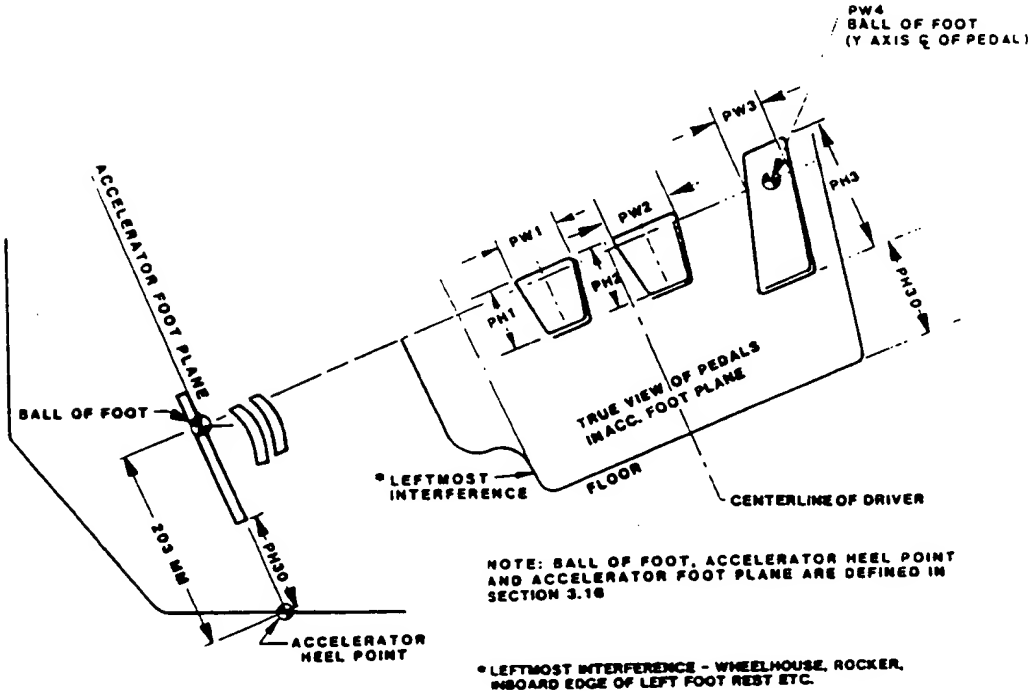


FIGURE 32—PEDAL SHAPES AND SIZES - MANUAL AND AUTOMATIC TRANSMISSION VEHICLES

12.2.1 L13-BRAKE PEDAL KNEE CLEARANCE—The minimum dimension measured in the side-view from the lower edge of the steering wheel rim to the centerline of the brake pedal face with pedals in the free position.

12.2 L52-BRAKE PEDAL TO ACCELERATOR—The minimum dimension measured in the side-view from the center of the brake pedal face to the accelerator pedal face with pedals in free position. A minus (-) dimension indicates that the brake pedal is lower than the accelerator pedal.

12.2.3 PL1-ACCELERATOR TO BRAKE LIFTOFF—Perpendicular distance between the Accelerator Foot Plane and a parallel plane tangent to the undepressed brake pedal pad.

12.2.4 PL2-BRAKE TO CLUTCH LIFTOFF—The perpendicular distance between two planes, parallel to the Accelerator Foot Plane, one tangent to the brake pedal pad and the other tangent to the clutch pedal pad. If the clutch is forward of the brake, the dimension is negative.

12.2.5 PW1-CLUTCH PEDAL WIDTH—Maximum width of the clutch pedal pad viewed normal to the Accelerator Foot Plane.

12.2.6 PW2-BRAKE PEDAL WIDTH—Maximum width of automatic or manual brake pedal pad viewed normal to the Accelerator Foot Plane.

12.2.7 PW3-ACCELERATOR PEDAL PAD WIDTH—Lateral distance measured through the Ball of Foot reference point parallel to the Y-axis.

12.2.8 PW4-'Y' COORDINATE AT CENTERLINE OF ACCELERATOR PEDAL PAD —Measured at ball of foot height.

12.2.9 PW10-RIGHT EDGE OF BRAKE PEDAL TO CENTERLINE OF DRIVER—SgRP front Y coordinate to the right-most edge of the brake pedal pad. This is a negative dimension if the brake pedal is left of the centerline of driver.

12.2.10 PW11-ACCELERATOR TO BRAKE LATERAL SEPARATION—Minimum distance measured between the right edge of the brake pedal pad and the left edge of the accelerator pedal viewed normal to the Accelerator Foot Plane.

12.2.11 PW20-CLUTCH PEDAL FOOT CLEARANCE—Minimum distance measured between the centerline of the clutch pedal pad and the right edge of the nearest interference (Wheelhouse, left foot rest, rocker, etc.) throughout the clutch pedal travel.

12.2.12 PW21-LEFT FOOT SPACE—Minimum distance between the left-most of the undepressed brake pedal pad (automatic transmission) and the right of the nearest interference (wheelhouse, rocker, inboard edge of left foot rest) through the stroke of the pedal.

12.2.13 PW22-LATERAL SPACE FOR ACCELERATOR PEDAL OPERATION—Minimum distance measured between the right foot support structure at the Accelerator Foot Plane and the right edge of the brake pedal pad viewed normal to the Accelerator Foot Plane.

12.2.14 PW30-BRAKE TO CLUTCH LATERAL SEPARATION—Minimum distance measured between the center of the manual brake pedal pad and the center of the clutch pedal pad viewed normal to the Accelerator Foot Plane.

12.2.15 PW31-ACCELERATOR PEDAL TO RIGHT FOOT SUPPORT STRUCTURE —Minimum distance measured from the right edge of the accelerator pedal to the right foot support structure (tunnel or console) at the Accelerator Foot Plane.

12.2.16 PH1-CLUTCH PEDAL PAD HEIGHT—Maximum height of the clutch pedal pad viewed normal to the Accelerator Foot Plane.

12.2.17 PH2-BRAKE PEDAL PAD HEIGHT—Maximum height of the brake pedal viewed normal to the Accelerator Foot Plane.

12.2.18 PH3-ACCELERATOR PEDAL HEIGHT—Maximum height of the accelerator pedal viewed normal to the Accelerator Foot Plane.

12.2.19 PH30-BOTTOM OF ACCELERATOR PEDAL TO FLOOR—Minimum distance from the Accelerator Heel Point to the bottom of the accelerator pedal viewed normal to the Accelerator Foot Plane.

12.2.20 PH31-CENTERLINE OF BRAKE PEDAL TO FLOOR—Vertical distance from the brake pedal at the center of the pedal pad surface to the floor at the Accelerator Heel Point.

12.2.21 PH32-CENTERLINE OF CLUTCH PEDAL TO FLOOR—Vertical distance from the clutch pedal at the center of the pedal pad surface to the floor covering.

13. Design H-Point Travel Path

13.1 Design H-Point Travel Path Definitions—H-Point travel path for the driver's seat is established in side-view relative to the SgRP. See H70, L31, and W20. The prefix T is added to the L (length) and H (height) to denote ...ific H-Point travel path dimensions. TL and TH dimensions from 2 through ...pply only when vertical adjustment is provided independent of track rise with forward movement. Track rise, when provided, is the amount the H-Point increases in height with forward movement due to an inclined seat track.

Reference points defining H-point travel path are as follows:

a. Rearmost-Lowest Design H-Point - The rearmost location at the full down position of vertical travel independent of track rise.

b. Foremost-Lowest Design H-Point - The foremost location of the full down position of vertical travel independent of track rise.

c. Foremost-Highest Design H-Point - The foremost location of the full up position of vertical travel independent of track rise.

d. Rearmost-Highest Design H-Point - The rearmost location of the full up position of vertical travel independent of track rise.

e. Rearmost Design H-Point - The rearmost location based on the normal H-Point travel path through the SgRP parallel to the fore aft track travel path.

f. Foremost Design H-Point - The foremost location based on the normal H-Point travel path through the SgRP parallel to the fore aft track travel path.

g. Foremost Normal Driving and Riding Design H-Point - The foremost location accepted for normal driving and riding. Locations forward of this point are typically utilized for access, storage and/or service.

13.2 Design H-Point Travel Path Dimensions—(See Figure 33.)

13.2.1 TL2-SGRP TO REARMOST-LOWEST DESIGN H-POINT—The dimension measured horizontally from the SgRP to the rearmost location at full down Design H-Point. This measurement accounts for adjustments independent of track rise.

13.2.2 TH2-SGRP TO REARMOST-LOWEST DESIGN H-POINT—The dimension measured vertically from the SgRP to the rearmost location at full down Design H-Point. This measurement includes vertical adjustment independent of track rise.

13.2.3 TL3-SGRP TO FOREMOST-LOWEST DESIGN H-POINT—The dimension measured horizontally from the SgRP to the foremost location at full down Design H-Point. The dimension is negative if the SgRP is below the foremost-lowest Design H-Point. This measurement accounts for adjustments independent of track rise.

13.2.4 TH3-SGRP TO FOREMOST-LOWEST DESIGN H-POINT—The dimension measured vertically from the SgRP to the foremost location at full down Design H-Point. The dimension is negative if the SgRP is below the foremost-lowest Design H-Point. This measurement includes vertical adjustment independent of track travel rise.

13.2.5 TL4-SGRP TO FOREMOST-HIGHEST DESIGN H-POINT—The dimension measured horizontally from the SgRP to the foremost location at full up Design H-Point. This measurement accounts for adjustments independent of track rise.

13.2.6 TH4-SGRP TO FOREMOST-HIGHEST DESIGN H-POINT—The dimension measured vertically from the SgRP to the foremost location at full up Design H-Point. This measurement includes vertical adjustment independent of track rise.

13.2.7 TL5-SGRP TO REARMOST-HIGHEST DESIGN H-POINT—The dimension measured horizontally from the SgRP to the rearmost location of full up Design H-Point. This measurement accounts for adjustments independent of track travel.

13.2.8 TH5-SGRP TO REARMOST-HIGHEST DESIGN H-POINT—The dimension measured vertically from the SgRP to the rearmost location of full up Design H-Point. This measurement includes vertical adjustment independent of track travel.

13.2.9 TL6-SGRP TO REARMOST DESIGN H-POINT—The dimension measured horizontally from the SgRP to the rearmost location of the Design H-Point. This measurement is based on Design H-Point travel path through the SgRP parallel to the fore aft track travel path and does not account for independent vertical adjustment, if provided.

13.2.10 TH6-SGRP TO REARMOST DESIGN H-POINT—The dimension measured vertically from the SgRP to the rearmost location of the Design H-point. This measurement is based on Design H-Point travel path through the SgRP parallel to the fore aft track travel path and does not account for independent vertical adjustment, if provided.

13.2.11 TH8-VERTICAL DESIGN H-POINT ADJUSTMENT—The dimension measured normal from the lower Design H-Point travel path to upper Design H-Point travel path at the SgRP due to independent vertical adjustment modes.

13.2.12 TL17-DESIGN H-POINT TRAVEL—The dimension measured horizontally between the Design H-Point at the foremost and rearmost Design H-Point positions.

13.2.13 TH17-DESIGN H-POINT RISE—The dimension measured vertically between the Design H-Point at the foremost and rearmost Design H-Point positions. Independent vertical adjustment, if provided, is not included.

13.2.14 TL23-NORMAL DRIVING AND RIDING SEAT-TRACK TRAVEL—The dimension measured horizontally between the SgRP and foremost normal driving and riding Design H-Point (not to include seat track travel used for purposes other than normal driving and riding positions).

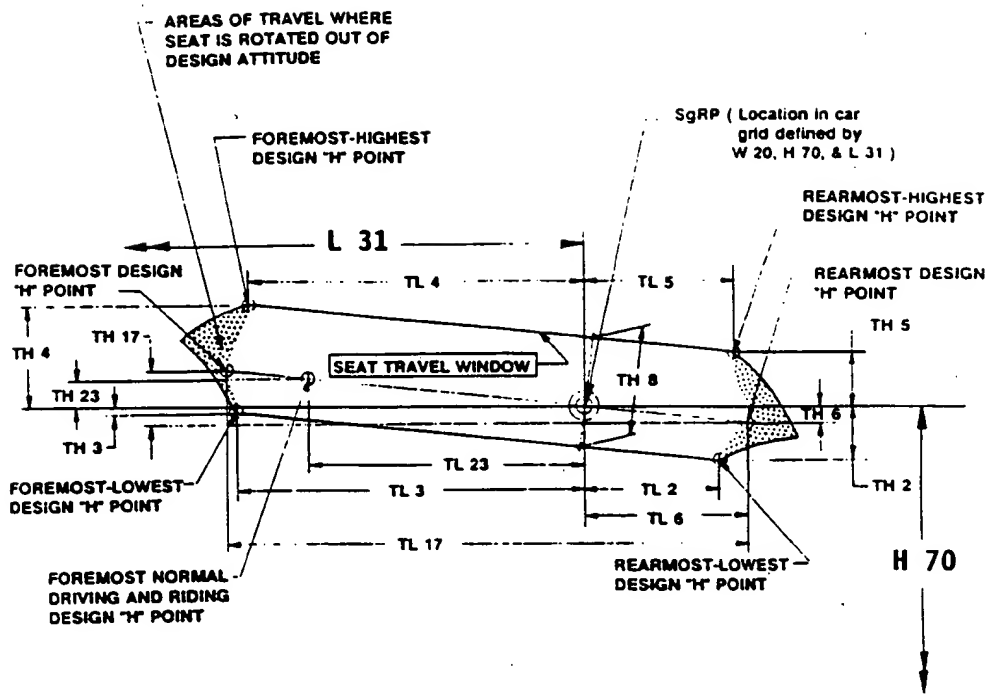


FIGURE 33—SEAT TRAVEL DIMENSIONS

13.2.15 TH23-NORMAL DRIVING AND RIDING DESIGN H-POINT RISE—The dimension measured between the SgRP and the foremost normal driving and riding Design H-Point (TL23 position).

14. Numerical Index of Dimensions—Tables 3-9 list the W, L, an dimensions in numerical order.

TABLE 3—DIMENSION INDEX—WIDTH DIMENSION AND NUMERICAL SEQUENCE

Ident.	Definition	Revised	Section No.	Figure No.
W3	Shoulder room - front		5.1.31	12
W4	Shoulder room - second		5.2.30	12
W5	Hip room - front		5.1.32	12
W6	Hip room - second		5.2.31	12
W7	Steering wheel center - Y coordinate		5.6.24	12
W9	Steering wheel maximum outside diameter		5.6.25	12
W16	Cushion width - front		5.5.34	12
W20	SgRP - front - Y coordinate		5.1.33	12
W21	Fiducial mark no. 1 - Y coordinate (See SAE J182A)		4.1	-
W22	Fiducial mark no. 2 - Y coodinate (See SAE J182A)		4.2	-
W23	Fiducial mark no. 3 - Y coordinate (See SAE J182A)		4.3	-
W25	SgRP - second - Y coordinate		5.2.32	12
W26	SgRP - third - Y coordinate		5.4.21	-
W27	Head clearance diagonal - driver	x	5.1.34	12
W30	Steering wheel to door clearance		5.6.6	-
W33	Head clearance diagonal - second	x	5.2.33	12
W34	Head clearance diagonal - third	x	5.4.22	12
W35	Head clearance lateral - driver	x	5.1.35	12
W36	Head clearance lateral - second	x	5.2.34	12
W37	Head clearance lateral - third	x	5.3.23	12
W38	Head clearance - minimum - driver	x	5.1.36	-
W39	Head clearance - minimum - second	x	5.2.35	-
W40	Head clearance - minimum - third	x	5.4.24	-
W41	Side glass radius		5.8.7	17
W85	Shoulder room - third		5.4.25	14
W86	Hip room - third		5.4.26	14
W101	Tread - front		6.1.1	17
W102	Tread - rear		6.1.2	17,18
W103	Vehicle width	x	6.1.3	17
W106	Front fender width		6.1.4	17
W107	Rear fender width		6.1.5	17
W116	Body width - maximum	x	6.1.6	17
W117	Body width at SgRP - front	x	6.1.7	17

Continued

TABLE 3—DIMENSION INDEX—WIDTH DIMENSION AND NUMERICAL SEQUENCE (CONTINUED)

W120	Vehicle width - front doors open	x	6.1.8	17,18
W121	Vehicle width - rear doors open	x	6.1.9	17,18
W122	Tumble-home		5.6.28	17
W201	Cargo width - wheelhouse		7.34	27,28
W203	Rear opening width at floor		7.35	27,28
W204	Rear opening width at belt		7.36	27,28
W205	Rear opening width above belt		7.37	27,28
W300	Engine cover width - left		5.1.37	11
W301	Engine cover width - right		5.1.38	11
W306	Sleeper compartment width		5.3.3	13
W409	Vehicle width - tail doors open		6.1.10	18
W410	Vehicle Width - including outside mirrors	x	6.1.11	18
W500	Cargo width at floor		7.38	18,28

TABLE 4—DIMENSION INDEX—LENGTH DIMENSION AND NUMERICAL SEQUENCE

Ident.	Definition	Revised	Section No.	Figure No.
L3	Compartment room - second		5.2.19	8
L4	Tire size - rear only if different than front		6.4.20	22
L7	Steering wheel torso clearance		5.6.15	8
L9	Cushion depth - front		5.5.22	8
L10	Effective cushion depth - front		5.5.23	8
L11	Accelerator heel point to steering wheel center		5.6.16	10
L12	Effective cushion depth - second		5.5.24	8
L13	Brake pedal knee clearance	x	5.6.17	8,30
L14	Seatback thickness - front		5.5.25	8
L15	Seatback thickness - second		5.5.26	8
L16	Cushion depth - second		5.5.27	8
L18	Entrance foot clearance - front		5.5.28	12
L19	Entrance foot clearance - second		5.5.29	12
L20	Seatback thickness - third		5.5.30	-
L21	Cushion depth - third	x	5.5.31	-
L22	Steering wheel to seatback		5.5.32	-
L24	Effective cushion depth - third		5.5.33	-
L30	Front of dash - X coordinate		6.3.1	8,22
L31	SgRP - front - X coordinate		5.1.20	8
L32	SgRP - second to rear wheel centerline		5.2.20	8
L34	Maximum effective leg room - front		5.1.21	9
L35	SgRP - second - X coordinate		5.2.21	8
L36	SgRP - third - X coordinate		5.4.12	-
L38	Head clearance to windshield garnish - driver	x	5.1.22	9
L39	Head clearance to backlite garnish	x	5.2.22	9
L40	Torso (back) angle - front	x	5.1.23	9
L41	Torso (back) angle - second	x	5.2.23	9
L42	Hip angle - front		5.1.24	9
L43	Hip angle - second		5.2.24	10
L44	Knee angle - front		5.1.25	10
L45	Knee angle - second		5.2.25	10
L46	Foot angle - front		5.1.26	10
L47	Foot angle - second	x	5.2.26	10
L48	Knee clearance - second	x	5.2.27	10
L50	SgRP couple distance		5.2.28	10
L51	Effective leg room - second	x	5.2.29	10
L52	Brake pedal to accelerator	x	5.6.18	10,30
L53	SgRP - front to heel		5.1.27	10
L54	Fiducial mark no. 1 - X coordinate		4.1	-
L55	Fiducial mark no. 2 - X coordinate		4.2	-
L56	Fiducial mark no. 3 - X coordinate		4.3	-
L82	Knee clearance - front		5.1.28	-
L85	SgRP couple distance - third		5.4.13	14
L86	Effective leg room - third		5.4.14	14
L87	Knee clearance - third		5.4.15	14
L88	Torso (back) angle - third	x	5.4.16	14
L89	Hip angle - third		5.4.17	14
L90	Knee angle - third		5.4.18	14
L91	Foot angle - third		5.4.19	14
L92	Compartment room - third		5.4.20	-
L101	Wheelbase		6.3.2	3,22
L103	Vehicle length		6.3.3	3,22
L104	Overhang - front		6.3.4	3,22
L105	Overhang - rear		6.3.5	3,22
L106	Overhang - front - RPO		6.3.6	3,22
L107	Overhang - rear - RPO		6.3.7	3,22

Continued

TABLE 4—DIMENSION INDEX—LENGTH DIMENSION AND NUMERICAL SEQUENCE (CONTINUED)

L108	Vehicle length - RPO		6.3.8	3.22
L114	Front wheel centerline to front SgRP		5.1.29	8
L123	Upper structure length		6.3.9	3
L125	Cowl point - X coordinate		6.3.10	3
L126	Front end length		6.3.11	3
L127	Rear wheel centerline - X coordinate		6.3.12	3.22
L128	Front wheel centerline - X coordinate		6.3.13	3.22
L129	Rear end length		6.3.14	3
L200	Cargo length - open - front		7.15	27
L201	Cargo length - open - second		7.16	24
L202	Cargo length - closed - front		7.17	24.26
L203	Cargo length - closed - second		7.18	24.26
L204	Cargo length at belt - front		7.19	24.26
L205	Cargo length at belt - second		7.20	24.26
L208	Cargo length at front seatback height - hatchback		7.21	24.26
L209	Cargo length at floor - front - hatchback		7.22	24
L210	Cargo length at second seatback height - hatchback		7.23	24
L211	Cargo length at floor - second - hatchback		7.24	24
L308	Engine cover length		5.1.30	11
L324	SgRP to windshield upper DLO	x	5.6.19	11
L330	Clutch pedal to steering wheel clearance		5.6.20	13
L331	Brake pedal to steering wheel clearance		5.6.21	13
L332	Accelerator pedal to steering wheel clearance		5.6.22	13
L350	Sleeper compartment length		5.3.2	13
L403	Front of bumper to back of cab		6.3.15	22
L404	Cab to rear axle		6.3.16	22
L408	Front bumper to cab - tilt cab servicing position		6.3.17	21
L409	Cab servicing tilt angle		6.3.18	21
L410	Cab length		6.3.19	22
L411	Dual rear axle spacing		6.3.20	22
L421	Max dist. from accel. heel pt to intersection of frt and top surface of hood		5.6.23	13
L504	Cab to pickup body		7.25	26
L505	Pickup body length at floor		7.26	26
L506	Pickup body length at top of body		7.27	26
L507	Cargo body overall length		7.28	26
L508	Side cargo door opening length		7.29	26
L509	Cargo length - closed - third		7.30	26
L510	Cargo length at belt - third		7.31	26
L511	Front cargo surface		7.32	26
L512	Cargo length to engine cover		7.33	26

TABLE 5—DIMENSION INDEX—HEIGHT DIMENSION AND NUMERICAL SEQUENCE

Ident.	Dimension	Revised	Section No.	Figure No.
H5	SgRP - front to ground		5.1.2	4
H6	SgRP - front to windshield lower DLO	x	5.6.1	5
H10	SgRP - second to ground		5.2.2	4
H11	Entrance height - front		5.5.1	5
H12	Entrance height - second		5.5.2	5
H13	Steering wheel to centerline of thigh		5.6.2	5
H14	Eyellipse to bottom of inside rearview mirror		5.6.3	5
H17	Accelerator heel point to steering wheel center		5.6.4	5
H18	Steering wheel angle		5.6.5	5
H25	Belt height - front		5.6.6	5
H26	Interior body height - front at zero Y plane		5.1.3	5
H27	Interior body height - front at SgRP Y plane		5.1.4	5
H28	Interior body height - second at zero Y plane		5.2.3	4
H29	Interior body height - second at SgRP Y plane		5.2.4	4
H30	SgRP - front to heel		5.1.5	4
H31	SgRP - second to heel		5.2.5	4
H32	Cushion deflection - front		5.5.3	4
H33	Cushion deflection - second		5.5.4	4
H34	Cushion deflection - third		5.5.5	14
H35	Vertical head clearance - driver	x	5.1.6	12
H36	Head clearance vertical - second	x	5.2.6	12
H37	Headlining to roof panel - front	x	5.1.7	4
H38	Headlining to roof panel - second	x	5.2.7	4
H39	Head clearance vertical - third	x	5.4.3	12
H40	Steering wheel to accelerator heel point		5.5.6	5
H41	Minimum head clearance - driver	x	5.1.8	12
H42	Minimum head clearance - second	x	5.2.8	12
H49	Eyellipse to top of steering wheel		5.6.7	5
H50	Upper-body opening to ground - front		5.5.7	5

Continued

TABLE 5—DIMENSION INDEX—HEIGHT DIMENSION AND NUMERICAL SEQUENCE (CONTINUED)

H51	Upper-body opening to ground - second		5.5.8	6
H53	D-point - front to heel		5.1.9	6
H54	D-point - center passenger - front to tunnel		5.1.10	6
H55	D-point - center passenger - second to tunnel		5.2.9	6
H56	D-point - front to floor	x	5.1.11	6
H57	D-point - second to floor		5.2.10	6
H60	D-point to heel point - second		5.2.11	6
H61	Effective head room - front		5.1.12	6
H62	D-point to heel point - third		5.4.4	-
H63	Effective head room - second		5.2.12	6
H64	SgRP - front to windshield upper DLO	x	5.6.8	5
H65	D-point - front differential, side to center		5.1.13	6
H66	D-point - differential, side to center - second		5.2.13	6
H67	Floor covering thickness - undepressed - front		5.1.14	7
H68	Floor covering thickness - depressed - front		5.1.15	7
H69	Exit height - second		5.5.9	7
H70	SgRP - front - Z coordinate		5.1.16	7
H71	SgRP - second - Z coordinate		5.2.14	7
H72	Floor covering thickness - undepressed - second		5.2.15	7
H73	Floor covering thickness - depressed - second		5.2.16	7
H74	Steering wheel to cushion		5.5.10	7
H75	Effective T-point head room - front		5.1.17	7
H76	Effective T-point head room - second		5.2.17	7
H77	Seatback height - front		5.4.11	7
H78	Seatback height - second	x	5.4.12	7
H79	SgRP differential - side to center - front		5.1.18	-
H80	SgRP - differential, side to center - second	x	5.2.18	-
H81	Fiducial mark no. 1 - Z coordinate (see SAE J182A)		4.1	-
H82	Fiducial mark no. 2 - Z coordinate (see SAE J182A)		4.2	-
H83	Fiducial mark no. 3 - Z coordinate (see SAE J182A)		4.3	-
H84	Headlining to roof - third		5.4.5	-
H85	SgRP third to ground		5.4.6	14
H86	Effective head room - third		5.4.7	14
H87	SgRP - third to heel - vertical		5.4.8	14
H88	SgRP - third - Z coordinate		5.4.9	14
H89	Effective T-point head room - third		5.4.10	14
H90	D-point - third to floor		5.4.11	-
H92	Seatback height - third	x	5.5.13	-
H94	Steering wheel to cushion - minimum		5.5.14	-
H101	Vehicle height		6.2.1	15,20
H102	Front bumper to ground		6.4.1	15
H103	Front bumper to ground - curb weight		6.4.2	15
H104	Rear bumper to ground		6.4.3	15
H105	Rear bumper to ground - curb weight		6.4.4	15
H106	Angle of approach		6.4.5	23
H107	Angle of departure		6.4.6	23
H108	Static load - tire radius - front		6.4.7	23
H109	Static load - tire radius - rear		6.4.8	23
H111	Rocker panel - rear to ground		6.2.2	5,20
H112	Rocker panel - front to ground		6.2.3	5,20
H114	Cowl point to ground		6.2.4	5
H115	Step height - front		5.5.15	5,20
H116	Step height - second	x	5.5.16	5,24
H121	Backlight slope angle	x	5.6.9	5,20
H122	Windshield slope angle		5.6.10	5,20
H123	Eyellipse to backlight upper opening		5.6.11	5
H124	Vision angle to windshield upper DLO		5.6.12	5
H125	Headlamp to ground		6.2.5	6
H126	Taillamp to ground		6.2.6	6
H127	Headlamp to ground - curb weight		6.2.7	6
H128	Taillamp to ground - curb weight		6.2.8	6
H129	Windshield Slope - Driver Vision	x	5.6.13	
H130	Step height - front (curb weight)		5.5.17	5,20
H131	Step height - second (curb weight)		5.5.18	5
H132	Bottom of door open - front to ground		6.2.9	6,20
H133	Bottom of door closed - front to ground		6.2.10	6,20
H134	Bottom of door open - rear to ground		6.2.11	6
H135	Bottom of door closed - rear to ground		6.2.12	6
H136	Zero Z plane to ground - front		6.2.13	6,20
H137	Zero Z plane to ground - rear		6.2.14	6,20
H138	Deck point to ground		6.2.15	9
H139	Bottom of door ajar - front to ground		6.2.16	9
H140	Bottom of door ajar - rear to ground		6.2.17	9
H147	Ramp breakover angle		6.4.9	23

Continued

TABLE 5—DIMENSION INDEX—HEIGHT DIMENSION AND NUMERICAL SEQUENCE (CONTINUED)

H148	Front suspension to ground		6.4.10	23
H149	Oil pan to ground		6.4.11	23
H150	Flywheel/converter housing and transmission assembly to ground		6.4.12	23
H151	Frame structure to ground		6.4.13	23
H152	Exhaust system to ground		6.4.14	23
H153	Rear axle differential to ground		6.4.15	23
H154	Fuel tank to ground	x	6.4.16	23
H155	Spare tire well to ground		6.4.17	23
H156	Minimum running ground clearance		6.4.18	-
H158	Roof thickness		6.2.18	19
H159	Side glass height		6.2.19	19
H160	Body thickness		6.2.20	19
H161	Fiducial mark no. 1 - Z coordinate to ground at curb weight		4.1	-
H162	Fiducial mark no. 2 - Z coordinate to ground at curb weight		4.2	-
H163	Fiducial mark no. 1 - Z coordinate to ground		4.1	-
H164	Fiducial mark no. 2 - Z coordinate to ground		4.2	-
H167	Fiducial mark no. 3 - Z coordinate to ground at curb weight		4.3	-
H168	Fiducial mark no. 3 - Z coordinate to ground		4.3	-
H195	Liftover height		6.2.21	19
H196	Liftover height - curb weight		6.2.22	19
H197	Seatback to load floor height - front		7.1	24
H198	Seatback to load floor height - second	x	7.2	24
H199	Seatback to load floor height - third	x	7.3	-
H201	Cargo height		7.4	27
H202	Rear opening height		7.5	27
H250	Tailgate to ground (curb weight)		7.6	27
H311	Engine cover height		5.1.19	11
H326	Seat cushion height - front		5.5.19	11
H350	Sleeper compartment height		5.3.1	13
H404	Maximum overall height - tilt cab servicing		6.2.23	21
H420	Distance from accel. heel pt to intersection of frt and top surface of hood		5.6.14	13
H430	Body height		6.2.24	20
H431	Vehicle height - curb weight		6.2.25	20
H436	Zero Z plane to ground - front (curb weight)		6.2.26	20
H437	Zero Z plane to ground - rear (curb weight)		6.2.27	20
H445	Second step height - front		5.5.20	25
H446	Second step height - second		5.5.21	25
H501	Cargo floor height to ground		7.7	25
H502	Cargo floor height to ground (curb weight)		7.8	25
H503	Pickup body height		7.9	25
H504	Wheelhouse height		7.10	25
H505	Maximum cargo height		7.11	25
H506	Cargo floor height		7.12	25
H507	Frame height		7.13	25
H508	Side cargo door opening height		7.14	25

TABLE 6—DIMENSION INDEX—CARGO VOLUME DIMENSION AND NUMERICAL SEQUENCE

Ident.	Dimension	Revised	Section No.	Figure No.
V1	Luggage Capacity	x	8.0	-
V2	Station wagon cargo volume maximum		9.1	-
V3	Hatchback cargo volume maximum	x	9.2	-
V4	Hidden luggage capacity - rear of front seat		9.3	-
V5	Open trucks and MPV cargo volume		9.4	-
V6	Enclosed truck and MPV cargo volume - maximum		9.5	-
V7	Enclosed truck and MPV cargo volume - behind second seat	x	9.6	-
V9	Enclosed truck and MPV cargo volume - behind third seat	x	9.7	-
V10	Station wagon cargo volume maximum - behind second seat		9.8	-
V11	Hatchback cargo volume - behind second seat		9.9	-
V210	Enclosed luggage compartment volume	x	10.2.1	-
V211	Open luggage compartment volume - behind second seat	x	10.2.2	-
V212	Open luggage compartment - behind first seat	x	10.2.3	-
V213	Open luggage compartment - behind third seat	x	10.2.4	-
V214	Largest luggage volume	x	10.2.5	-

TABLE 7—DIMENSION INDEX—GLASS AREA DIMENSION AND NUMERICAL SEQUENCE

Ident.	Dimension	Revised	Section No.	Figure No.
S1	Windshield area		11.0	-
S2	Side window area		11.0	-
S3	Backlight areas		11.0	-
S4	Total areas		11.0	-

TABLE 8—DIMENSION INDEX—PEDAL DIMENSION AND NUMERICAL SEQUENCE

Ident.	Dimension	Revised	Section No.	Figure No.
PH1	Clutch pedal pad height	x	12.2.16	32
PH2	Brake pedal pad height	x	12.2.17	32
PH3	Accelerator pedal height	x	12.2.18	32
PH30	Bottom of accelerator pedal to floor	x	12.2.19	30,31,32
PH31	Centerline of brake pedal to floor	x	12.2.20	30,31
PH32	Centerline of clutch pedal to floor	x	12.2.21	31
PL1	Accelerator to brake liftoff	x	12.2.3	30,31
PL2	Brake to clutch liftoff	x	12.2.4	31
PW1	Clutch pedal width	x	12.2.5	32
PW2	Brake pedal width	x	12.2.6	32
PW3	Accelerator pedal pad width	x	12.2.7	32
PW4	'Y' coordinate at centerline of accelerator pedal pad	x	12.2.8	30,31,32
PW10	Right edge of brake pedal to centerline of driver	x	12.2.9	30,31
PW11	Accelerator to brake lateral separation	x	12.2.10	30,31
PW20	Clutch pedal foot clearance	x	12.2.11	31
PW21	Left foot space	x	12.2.12	30
PW22	Lateral space for accelerator pedal operation	x	12.2.13	30,31
PW30	Brake to clutch lateral separation	x	12.2.14	31
PW31	Accelerator pedal to right foot support structure	x	12.2.15	30,31

TABLE 9—DIMENSION INDEX—H-POINT DIMENSION AND NUMERICAL SEQUENCE

Ident.	Dimension	Revised	Section No.	Figure No.
TH2	SgRP to rearmost - lowest design H-point	x	13.2.2	33
TH3	SgRP to foremost - lowest design H-point	x	13.2.4	33
TH4	SgRP to foremost - highest design H-point	x	13.2.6	33
TH5	SgRP to rearmost - highest design H-point	x	13.2.8	33
TH6	SgRP to rearmost design H-point	x	13.2.10	33
TH8	Vertical design H-point adjustment	x	13.2.11	33
TH17	Design H-point rise	x	13.2.13	33
TH23	Normal driving and riding design H-point rise	x	13.2.15	33
TL2	SgRP to rearmost - lowest design H-point	x	13.2.1	33
TL3	SgRP to foremost - lowest design H-point	x	13.2.3	33
TL4	SgRP to foremost - highest design H-point	x	13.2.5	33
TL5	SgRP to rearmost - highest design H-point	x	13.2.7	33
TL6	SgRP to rearmost design H-point	x	13.2.9	33
TL17	Design H-point travel	x	13.2.12	33
TL23	Normal driving and riding seat - track travel	x	13.2.14	33

15. Alphabetical Index of Dimensions—Table 10 lists the W, L, and H dimensions in alphabetical order. The shaded listings denote alternate titles for dimensions appearing in two alphabetical locations.

TABLE 10—DIMENSION INDEX—ALPHABETICAL SEQUENCE

Ident.	Definition	Revised	Section No.	Figure No.
L11	Accelerator heel point to steering wheel center		5.6.16	10
H17	Accelerator heel point to steering wheel center		5.6.16	10
PH3	Accelerator pedal pad height	x	12.2.18	32
PW3	Accelerator pedal pad width		12.2.7	32
PW31	Accelerator pedal to right foot support structure	x	12.2.15	30,31
L332	Accelerator pedal to steering wheel clearance		5.6.22	13
PW11	Accelerator to brake lateral separation	x	12.2.10	30,31
PL1	Accelerator to brake liftoff	x	12.2.3	30,31
H106	Angle of approach		6.4.5	23
H107	Angle of departure		6.4.6	23
S3	Backlight areas		11.0	-
H121	Backlight slope angle	x	5.6.9	15,20
H25	Belt height - front		5.6.6	15
H430	Body height		6.2.24	20
H160	Body thickness		6.2.20	19

Continued

TABLE 10—DIMENSION INDEX—ALPHABETICAL SEQUENCE (CONTINUED)

W410	Body Width - including outside mirrors	x	6.1.11	18
W116	Body width - maximum	x	6.1.6	17
W117	Body width - SgRP	x	6.1.7	17
PH30	Bottom of accelerator pedal to floor	x	12.2.19	30,31,32
H139	Bottom of door ajar - front to ground		6.2.16	19
H140	Bottom of door ajar - rear to ground		6.2.17	19
H133	Bottom of door closed - front to ground		6.2.10	16,20
H135	Bottom of door closed - rear to ground		6.2.12	16
H132	Bottom of door open - front to ground		6.2.9	16,20
H134	Bottom of door open - rear to ground		6.2.11	16
L13	Brake pedal knee clearance	x	5.6.17	8,30
PH2	Brake pedal pad height	x	12.2.17	32
L52	Brake pedal to accelerator	x	5.6.18	10,30
L331	Brake pedal to steering wheel clearance		5.6.21	13
PW2	Brake pedal width	x	12.2.6	32
PW30	Brake to clutch lateral separation	x	12.2.14	31
PL2	Brake to clutch liftoff	x	12.2.4	31
H103	Bumper to ground at curb weight - front		6.4.2	15
H105	Bumper to ground at curb weight - rear		6.4.4	15
H102	Bumper to ground - front		6.4.1	15
H104	Bumper to ground - Rear		6.4.3	15
L410	Cab length		6.3.19	22
L409	Cab servicing tilt angle		6.3.18	21
L504	Cab to pickup body		7.25	26
L404	Cab to rear axle		6.3.16	22
L507	Cargo body overall length		7.26	26
L508	Cargo door opening length - side		7.29	26
H508	Cargo floor height		7.12	25
H501	Cargo floor height to ground		7.7	25
H502	Cargo floor height to ground (curb weight)		7.8	25
H201	Cargo height		7.4	27
L204	Cargo length at belt - front		7.19	24,26
L205	Cargo length at belt - second		7.20	24,26
L510	Cargo length at belt - third		7.31	26
L209	Cargo length at floor - front - hatchback		7.22	24
L211	Cargo length at floor - second - hatchback		7.24	24
L208	Cargo length at front seatback height - hatchback		7.21	24,26
L210	Cargo length at second seatback height - hatchback		7.23	24
L512	Cargo length to engine cover		7.33	26
L202	Cargo length - closed - front		7.17	24,26
L203	Cargo length - closed - second		7.18	24,26
L509	Cargo length - closed - third		7.30	26
L200	Cargo length - open - front		7.15	27
L201	Cargo length - open - second		7.16	24
L511	Cargo surface - front		7.32	26
W500	Cargo width at floor		7.38	18,28
W201	Cargo width - wheelhouse		7.34	27,29
PH31	Centerline of brake pedal to floor	x	12.2.20	30,31
PH32	Centerline of clutch pedal to floor	x	12.2.21	31
PW20	Clutch pedal foot clearance	x	12.2.11	31
PH1	Clutch pedal pad height	x	12.2.16	32
L330	Clutch pedal to steering wheel clearance		5.6.20	13
PW1	Clutch pedal width	x	12.2.5	32
L3	Compartment room - second		5.2.19	9
L92	Compartment room - third		5.4.20	
L50	Couple - SgRP distance		5.2.28	10
L85	Couple - SgRP distance - third		5.4.13	14
H114	Cowl point to ground		6.2.4	15
L125	Cowl point X coordinate		6.3.10	3
H32	Cushion deflection - front		5.5.3	4
H33	Cushion deflection - second		5.5.4	4
H34	Cushion deflection - third		5.5.5	14
L10	Cushion depth - effective front		5.5.23	9
L12	Cushion depth - effective - second		5.5.24	9
L24	Cushion Depth - effective - third		5.5.33	
L9	Cushion depth - front		5.5.22	8
L16	Cushion depth - second		5.5.27	9
L21	Cushion depth - third	x	5.5.31	
W16	Cushion width - front		5.5.34	12
L30	Dash - front of X coordinate		6.2.3	6,22
H138	Deck point to ground		6.2.15	16
TH17	Design H-point rise	x	13.2.13	33
TL17	Design H-point travel	x	13.2.12	33
L38	Head clearance to windshield garnish - driver	x	5.1.22	9

Continued

TABLE 10—DIMENSION INDEX—ALPHABETICAL SEQUENCE (CONTINUED)

W38	Head clearance - minimum - driver		5.1.36	-
H35	Driver head clearance - vertical	x	5.1.6	12
L411	Dual rear axle spacing		6.3.20	22
H60	D-point to heel point - second		5.2.11	6
H62	D-point to heel point - third		5.1.10	6
H54	D-point - center passenger - front to tunnel		5.2.9	6
H55	D-point - center passenger - second to tunnel		5.1.13	6
H65	D-point - front - differential, side to center		5.2.13	6
H66	D-point - differential, side to center - second	x	5.1.11	6
H58	D-point - front to floor		5.1.9	6
H53	D-point - front to heel		5.2.10	6
H57	D-point - second to floor		5.1.14	6
H90	D-point - third to floor		5.5.23	8
L10	Effective cushion depth - front		5.5.24	8
L12	Effective cushion depth - second		5.5.33	-
L24	Effective cushion depth - third		5.1.12	6
H61	Effective head room - front		5.2.12	6
H63	Effective head room - second		5.4.7	14
H86	Effective head room - third	x	5.2.29	10
L51	Effective leg room - second		5.4.14	14
L86	Effective leg room - third		5.4.10	14
H89	Effective T-point head room - third		5.1.17	7
H75	Effective T-point head room - front		5.2.17	7
H76	Effective T-point head room - second		10.2.1	-
V210	Enclosed luggage compartment volume	x	9.6	-
V7	Enclosed truck and MPV cargo volume - behind second seat	x	9.7	-
V9	Enclosed truck and MPV cargo volume - behind third seat		9.5	-
V6	Enclosed truck and MPV cargo volume - maximum		5.1.19	11
H311	Engine cover height		5.1.30	11
L308	Engine cover length		5.1.37	11
W300	Engine cover width - left		5.1.38	11
W301	Engine cover width - right		5.5.28	12
L18	Entrance foot clearance - front		5.5.29	12
L19	Entrance foot clearance - second		5.5.1	5
H11	Entrance height - front		5.5.2	5
H12	Entrance height - second		6.4.14	23
H152	Exhaust system to ground		6.1.9	17
H99.3M	Exit height - second		5.6.11	6
H123	Eyellipse to backlight upper opening		5.6.3	5
H14	Eyellipse to bottom of inside rearview mirror		5.6.7	6
H49	Eyellipse to top of steering wheel		6.1.4	17
W108	Fender width - front		6.1.5	17
W107	Fender width - rear		4.3	-
H167	Fiducial mark no. 3 - Z coordinate to ground at curb weight		4.1	-
L54	Fiducial mark no. 1 - X coordinate		4.1	-
W21	Fiducial mark no. 1 - Y coordinate (See SAE J182A)		4.1	-
H163	Fiducial mark no. 1 - Z coordinate to ground		4.1	-
H161	Fiducial mark no. 1 - Z coordinate to ground at curb weight		4.1	-
H81	Fiducial mark no. 1 - Z coordinate (see SAE J182A)		4.2	-
L55	Fiducial mark no. 2 - X coordinate		4.2	-
W22	Fiducial mark no. 2 - Y coodinate (See SAE J182A)		4.2	-
H164	Fiducial mark no. 2 - Z coordinate to ground		4.2	-
H162	Fiducial mark no. 2 - Z coordinate to ground at curb weight		4.2	-
H82	Fiducial mark no. 2 - Z coordinate (see SAE J182A)		4.3	-
L56	Fiducial mark no. 3 - X coordinate		4.3	-
W23	Fiducial mark no. 3 - Y coordinate (See SAE J182A)		4.3	-
H168	Fiducial mark no. 3 - Z coordinate to ground		4.3	-
H83	Fiducial mark no. 3 - Z coordinate (see SAE J182A)		5.1.15	7
H68	Floor covering thickness - depressed - front		5.2.16	7
H73	Floor covering thickness - depressed - second		5.2.15	7
H69	Floor covering thickness - undepressed - front		6.4.12	23
H72	Floor covering thickness - undepressed - second		5.1.26	10
H150	Flywheel/converter housing and transmission assembly to ground		5.2.26	10
L46	Foot angle - front	x	5.4.19	14
L47	Foot angle - second		5.5.28	12
L91	Foot angle - third		5.5.29	12
L18	Foot clearance - entrance - front		7.13	25
L19	Foot clearance - entrance - second		6.4.13	23
H507	Frame height		6.3.17	21
H151	Frame structure to ground		6.4.1	15
L408	Front bumper to cab - tilt cab servicing position		6.4.2	15
H102	Front bumper to ground		5.5.32	26
H103	Front bumper to ground - curb weight			
L511	Front cargo surface			

Continued

TABLE 10—DIMENSION INDEX—ALPHABETICAL SEQUENCE (CONTINUED)

L126	Front end length		6.3.11	3
W106	Front fender width		6.1.4	17
L403	Front of bumper to back of cab		6.3.15	22
L30	Front of dash - X coordinate		6.3.1	8,22
H197	Front seatback to load floor height		7.1	24
H148	Front suspension to ground		6.4.10	23
L114	Front wheel centerline to front SgRP		5.1.29	8
L128	Front wheel centerline - X coordinate		6.3.13	3,22
H154	Fuel tank to ground		6.4.16	23
V3	Hatchback cargo volume maximum	x	9.2	-
V11	Hatchback cargo volume - behind second seat		9.9	-
W27	Head clearance diagonal - driver	x	5.1.34	12
W33	Head clearance diagonal - second	x	5.2.33	12
W34	Head clearance diagonal - third	x	5.4.22	12
W35	Head clearance lateral - driver	x	5.1.35	12
W36	Head clearance lateral - second	x	5.2.34	12
W37	Head clearance lateral - third	x	5.3.23	12
L39	Head clearance to beltline garnish	x	5.2.22	9
L38	Head clearance to windshield garnish - driver		5.1.22	9
W38	Head Clearance - Driver minimum	x	5.1.36	-
W39	Head clearance - minimum - second	x	5.2.35	-
W40	Head clearance - minimum - third	x	5.4.24	-
H36	Head clearance vertical - second	x	5.2.3	12
H39	Head clearance vertical - third	x	5.4.3	12
H63	Head room, effective - second		5.2.12	6
H86	Head room, effective - third		5.4.10	14
H89	Head room, T- point effective - third		5.4.10	14
H75	Head room, T-point, effective - front		5.1.17	7
H61	Head room - effective - front		5.1.12	6
H125	Headlamp to ground		6.2.5	16
H127	Headlamp to ground - curb weight		6.2.7	16
H37	Headlining to roof panel - front	x	5.1.7	4
H38	Headlining to roof panel - second	x	5.2.7	4
H84	Headlining to roof - third		5.4.5	-
H76	Head room, T-point, effective - second		5.2.17	7
H17	Heel point - accelerator to steering wheel center		5.6.4	5
L11	Heel point - Accelerator - to steering wheel center		5.6.16	10
H101	Height - Vehicle overall		6.2.1	15,20
V46	Hidden luggage capacity - rear of front seat		5.1.24	9
L42	Hip angle - front		6.2.2	10
L43	Hip angle - second		5.4.17	14
L89	Hip angle - third		5.1.32	12
W5	Hip room - front		5.2.31	12
W6	Hip room - second		5.4.26	14
W86	Hip room - third		5.2.4	4
H29	Interior body height - second at SgRP Y plane		5.2.3	4
H28	Interior body height - second at zero Y plane		5.1.4	5
H27	Interior body height - front at SgRP Y plane		5.1.3	5
H26	Interior body height - front at zero Y plane		5.1.25	10
L44	Knee angle - front		5.2.25	10
L45	Knee angle - second		5.1.28	-
L82	Knee clearance - front		5.2.27	10
L48	Knee clearance - second		5.4.15	14
L87	Knee clearance - third		5.4.16	14
L90	Knee room - third	x	10.2.5	-
V214	Largest luggage volume		12.2.13	30,31
PW22	Left foot space to accelerator pedal operation	x	12.2.12	30
PW21	Left foot space		5.1.21	14
L34	Leg room - Maximum effective - front	x	5.1.21	9
W103	Length - Vehicle		6.3.8	3,22
L108	Length - Vehicle - RPO		6.3.8	3,22
H196	Liftover height - curb weight		6.2.22	19
V215	Liftover height - Payload Capacity		5.6.23	19
L421	Max dist. from accel. heel pt to intersection of frt and top surface of hood		7.26	13
H505	Maximum cargo height		5.1.21	25
L34	Maximum effective leg room - front		5.1.8	9
H41	Minimum head clearance - driver	x	6.4.18	12
H156	Minimum running ground clearance		13.2.15	-
TH23	Normal driving and riding design H-point rise	x	13.2.14	33
TL23	Normal driving and riding seat - track travel	x		33

Continued

TABLE 10—DIMENSION INDEX—ALPHABETICAL SEQUENCE (CONTINUED)

H149	Oil pan to ground		6.4.11	23
V211	Open luggage compartment volume - behind second seat	x	10.2.2	-
V212	Open luggage compartment - behind first seat	x	10.2.3	-
V213	Open luggage compartment - behind third seat	x	10.2.4	-
V5	Open trucks and MPV cargo volume		9.4	-
L104	Overhang - front		6.3.4	3,22
L106	Overhang - front - RPO		6.3.6	3,22
L105	Overhang - rear		6.3.5	3,22
L107	Overhang - rear - RPO		6.3.7	3,22
H503	Pickup body height		7.9	25
L505	Pickup body length at floor		7.26	26
L506	Pickup body length at top of body		7.27	26
H147	Ramp breakover angle		6.4.9	23
H153	Rear axle differential to ground		6.4.15	23
H104	Rear bumper to ground		6.4.3	15
H105	Rear bumper to ground - curb weight		6.4.4	15
L129	Rear end length		6.3.14	3
W107	Rear fender width		6.1.5	17
H202	Rear opening height		7.5	27
W205	Rear opening width above belt		7.37	27,28
W204	Rear opening width at belt		7.36	27,28
W203	Rear opening width at floor		7.35	27,28
L127	Rear wheel centerline - X coordinate		6.3.12	3,22
PW10	Right edge of brake pedal to centerline of driver	x	12.2.9	30,31
H111	Rocker panel - rear to ground		6.2.2	15,20
H112	Rocker panel - front to ground		6.2.3	15,20
H158	Roof thickness		6.2.18	19
H326	Seat cushion height - front		5.5.19	11
H77	Seatback height - front		5.4.11	7
H78	Seatback height - second	x	5.4.12	7
H92	Seatback height - third	x	5.5.13	-
L14	Seatback thickness - front		5.5.25	8
L15	Seatback thickness - second		5.5.26	8
L20	Seatback thickness - third		5.5.30	-
H197	Seatback to load floor height - front		7.1	24
H198	Seatback to load floor height - second	x	7.2	24
H199	Seatback to load floor height - third	x	7.3	-
H445	Second step height - front		5.5.20	25
H446	Second step height - second		5.5.21	25
L50	SgRP couple distance		5.2.28	10
L85	SgRP couple distance - third		5.4.13	14
H79	SgRP differential - side to center - front		5.1.18	-
H85	SgRP third to ground		5.4.6	14
TH4	SgRP to foremost - highest design H-point	x	13.2.6	33
TL4	SgRP to foremost - highest design H-point	x	13.2.5	33
TL3	SgRP to foremost - lowest design H-point	x	13.2.3	33
TH3	SgRP to foremost - lowest design H-point	x	13.2.4	33
TH6	SgRP to rearmost design H-point	x	13.2.10	33
TL6	SgRP to rearmost design H-point	x	13.2.9	33
TH5	SgRP to rearmost - highest design H-point	x	13.2.8	33
TL5	SgRP to rearmost - highest design H-point	x	13.2.7	33
TH2	SgRP to rearmost - lowest design H-point	x	13.2.2	33
TL2	SgRP to rearmost - lowest design H-point	x	13.2.1	33
L324	SgRP to windshield upper DLO	x	5.6.19	11
H80	SgRP - differential, side to center - second	x	5.2.18	-
H5	SgRP - front to ground		5.1.2	4
L53	SgRP - front to heel		5.1.27	10
H30	SgRP - front to heel		5.1.5	4
H6	SgRP - front to windshield lower DLO	x	5.6.1	5
H64	SgRP - front to windshield upper DLO	x	5.6.6	5
L31	SgRP - front - X coordinate		5.1.20	8
W20	SgRP - front - Y coordinate		5.1.33	12
H70	SgRP - front - Z coordinate		5.1.16	7
H10	SgRP - second to ground		5.2.2	4
H31	SgRP - second to heel		5.2.5	4
L32	SgRP - second to rear wheel centerline		5.2.20	8
L35	SgRP - second - X coordinate		5.2.21	8
W25	SgRP - second - Y coordinate		5.2.32	12
H71	SgRP - second - Z coordinate		5.2.14	7
H87	SgRP - third to heel - vertical		5.4.8	14
L36	SgRP - third - X coordinate		5.4.12	-
W26	SgRP - third - Y coordinate		5.4.21	-
H88	SgRP - third - Z coordinate		5.4.9	14
W3	Shoulder room - front		5.1.31	12

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TABLE 10—DIMENSION INDEX—ALPHABETICAL SEQUENCE (CONTINUED)

W4	Shoulder room - second		5.2.30	12
W85	Shoulder room - third		5.4.25	14
H506	Side cargo door opening height		7.14	25
L506	Side cargo door opening length		7.29	26
H159	Side glass height		6.2.19	19
W41	Side glass radius		5.6.7	17
S2	Side window area		11.0	-
H350	Sleeper compartment height		5.3.1	13
L350	Sleeper compartment length		5.3.2	13
W306	Sleeper compartment width		5.3.3	13
H155	Spare tire well to ground		6.4.17	23
H108	Static load - tire radius - front		6.4.7	23
H109	Static load - tire radius - rear		6.4.8	23
V2	Station wagon cargo volume maximum		9.1	-
V10	Station wagon cargo volume maximum - behind second seat		9.8	-
H18	Steering wheel angle		5.6.5	5
W7	Steering wheel center - Y coordinate		5.6.24	12
W9	Steering wheel maximum outside diameter		5.6.25	12
H40	Steering wheel to accelerator heel point		5.5.6	5
H13	Steering wheel to centerline of thigh		5.6.2	5
H74	Steering wheel to cushion		5.5.10	7
H94	Steering wheel to cushion - minimum		5.5.14	-
W30	Steering wheel to door clearance		5.6.6	-
L22	Steering wheel to seatback		5.5.32	8
L7	Steering wheel torso clearance		5.6.15	8
H115	Step height - front		5.5.15	15.20
H130	Step height - front (curb weight)		5.5.17	16.20
H116	Step height - second	x	5.5.16	15.24
H131	Step height - second (curb weight)		5.5.18	16
H250	Tailgate to ground (curb weight)		7.6	27
H126	Taillamp to ground		6.2.6	16
H128	Taillamp to ground - curb weight		6.2.8	16
H108	Tire radius - static load - front		6.4.7	23
H109	Tire radius - static load - rear		6.4.8	23
L4	Tire size - rear only if different than front		6.4.20	22
L40	Torso (back) angle - front	x	5.1.23	9
L41	Torso (back) angle - second	x	5.2.23	9
L88	Torso (back) angle - third	x	5.4.16	14
S4	Total areas		11.0	-
W101	Tread - front		6.1.1	17
W102	Tread - rear		6.1.2	17,18
W122	Tumble-home		5.6.26	17
L123	Upper structure length		6.3.9	3
H50	Upper-body opening to ground - front		5.5.7	6
H51	Upper-body opening to ground - second		5.5.8	6
H101	Vehicle height		6.2.1	15.20
H431	Vehicle height - curb weight		6.2.25	20
L103	Vehicle length		6.3.3	3.22
L106	Vehicle length - RPO		6.3.8	3.22
W103	Vehicle width	x	6.1.3	17
W120	Vehicle width - front doors open	x	6.1.8	17,18
W121	Vehicle width - rear doors open	x	6.1.9	17,18
W409	Vehicle width - tail doors open		6.1.10	18
TH8	Vertical design H-point adjustment		13.2.11	33
H35	Vertical head clearance - driver	x	5.1.6	12
H124	Vision angle to windshield upper DLO		5.6.12	6
L127	Wheel centerline - rear - X coordinate		6.3.12	3.22
L114	Wheel centerline - front to front SgRP		5.1.29	8
L128	Wheel centerline - front - X coordinate		6.3.13	3.22
L101	Wheelbase		6.3.2	3.22
H504	Wheelhouse height		7.10	25
W117	Width - Body at SgRP	x	6.1.7	17
W410	Width - Body incl. outside mirrors	x	6.1.11	18
W116	Width - Body maximum	x	6.1.6	17
W500	Width - Cargo area at floor		7.38	18,28
W201	Width - Cargo - Wheelhouse		7.34	27,28
W205	Width - Rear cargo opening above belt		7.37	27,28
W204	Width - Rear cargo opening at belt		7.36	27,28
W203	Width - Rear cargo opening at floor		7.35	27,28
W103	Width - vehicle	x	6.1.3	17
W120	Width - Vehicle - Front doors open	x	6.1.8	17,18
W121	Width - Vehicle - Rear doors open	x	6.1.9	17,18
W409	Width - Vehicle - tail doors open		6.1.10	18

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TABLE 10—DIMENSION INDEX—ALPHABETICAL SEQUENCE (CONTINUED)

S1	Windshield area		11.0	-
H122	Windshield slope angle		5.6.10	15,20
H129	Windshield Slope - Driver Vision	x	5.6.13	-
H136	Zero Z plane to ground - front		6.2.13	16,20
H436	Zero Z plane to ground - front (curb weight)		6.2.26	20
H137	Zero Z plane to ground - rear		6.2.14	16,20
H437	Zero Z plane to ground - rear (curb weight)		6.2.27	20
PW4	'Y' coordinate at centerline of accelerator pedal pad	x	12.2.6	30,31,32